SERVICE MANUAL

SANYO

CASSETTE RECORDER

M X720LU

SPECIFICATIONS

Recording system	AC bias, 4-track stereo
Erasing system	AC erase, 2-track
Tape speed	4.75 cm/sec (1-7/8 i.p.s.)
Fast foward and Rewind time	2 min. (C–60)
Frequency rage	FM: 87.6 – 108 MHz LW: 150 – 285 kHz SW: 5.95 – 18 MHz MW: 530 – 1,605KHz
Terminal impedances	PHONO: 50k ohms REC/PB: (input) 10k ohms (output) 47k ohms EXT SP: 2.5 – 8 ohms HEADPHONES: 8 ohms MIC: 10K ohms MIXING MIC: 3K ohms
Frequency response	30 – 14,000 Hz (NORMAL) 30 – 16,000 Hz (CrO_2) 30 – 17,000 Hz (METAL)
Output power	11 W x 2 maximum Music Power
Power source	DC: 15V, "UM–1" (D) x 10 12–15 V Type Car battery adaptor AC: 115/230V, 50/60 Hz
Dimensions	604 (W) x 158 (D) x 307 (H) mm (23-13/16" x 6-1/4" x 12-3/32")
Weight	Approx. 8.4 kg (18 lbs. 9 ozs.) including batteries

* Specifications subject to change without notice.

HOW TO DISASSEMBLE THE SET

Be sure to remove batteries from the battery case or disconnect the power cord if it is connected.

1. How to detach the back lid

(1) Unscrew 8 pan head tapping screws M3 x 25 (Y9 of Cabinet Disassembly Dwg., page. 9) used to fasten the back lid.

2. How to remove the chassis

(1) Remove all control knobs from the top.

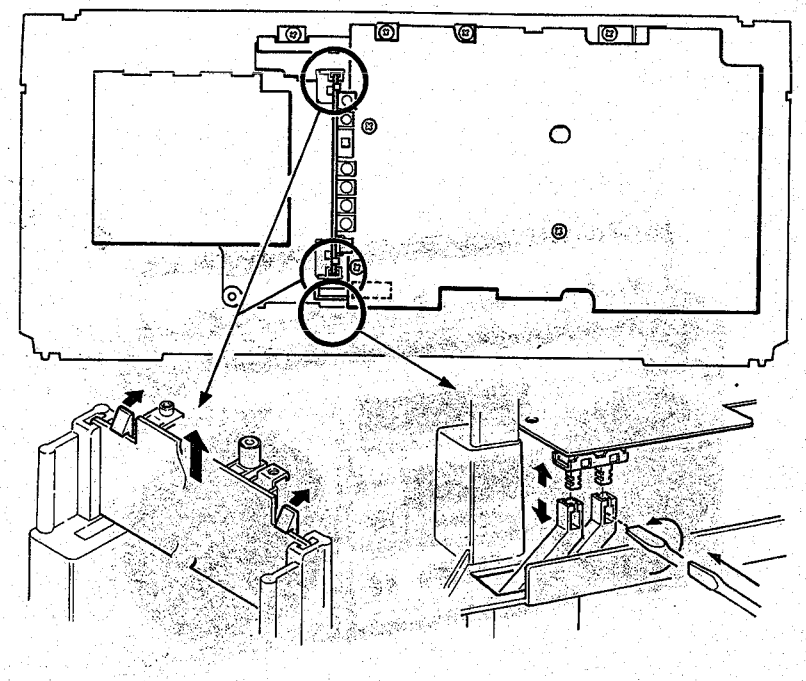
(2) As 5 pan head tapping screws M3 x 35 and 3 pan head tapping screws (* marks of Chassis Disassembly Dwg., page. 11) used to fasten the chassis are unscrewed, the chassis can be pulled out.

3. How to remove the main AMP. P.C.B. (See the figure below.)

(1) Unscrew 7 pan head tapping screws w/washer 3 x 10 used to fasten the main P.C.B.

(2) Insert a blade screwdriver into the fitting part of slide and switch shaft, and under the pried open condition, pull the slide.

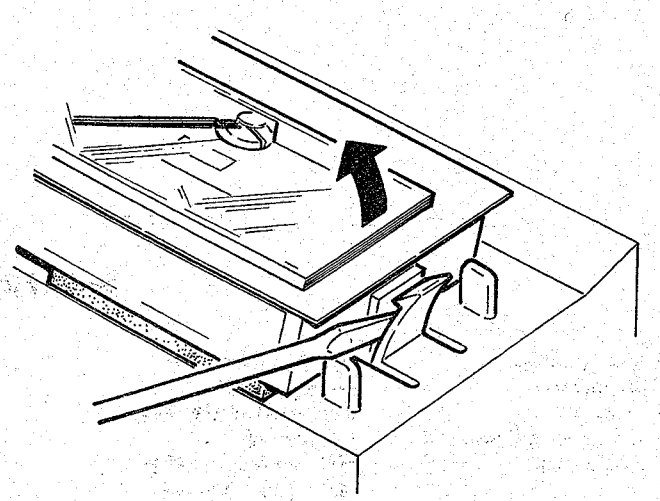
(3) As the socket P.C.B. and main P.C.B. are lifted under the condition of latches pushed in the direction of arrow, the main P.C.B. comes off.



4. How to detach the meter (See the figure at right.)

(1) As a meter retaining latch provided under the back plate is pried open by a blade screwdriver, the meter comes off.

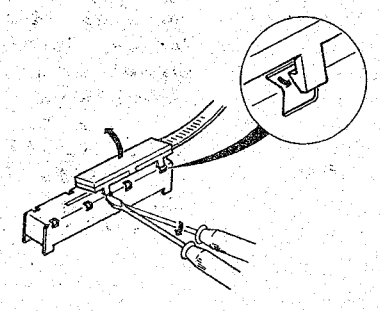
Note: Depending upon the extent of disassembly required, disconnect the socket. Turn to page 16, 17 for Connection Diagram.



REFERENCE

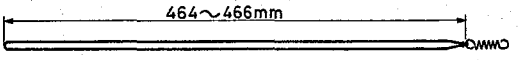
The wire used in connection between switches may be easily removed by prying off the two pawls on one side as shown. In this case, however, be careful not to damage the pawls.

When fitting the wire to switches, put the lead of the slide part of the wire into the switch hole or groove, and set up after making sure switching action of each switch is smooth and correct.



THREADING OF DIAL ROPE

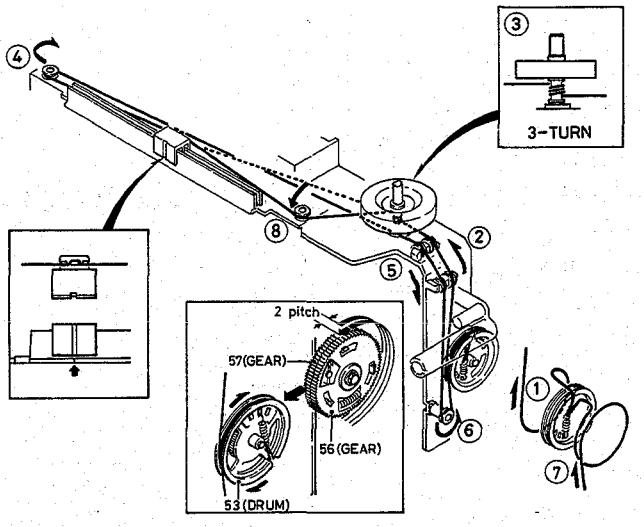
(1) Tie the dial rope to the spring coil so that the length when folded in double may be 464 to 466 mm.
(2) Start threading the rope in the direction of arrow from the start point as shown in the sketch.



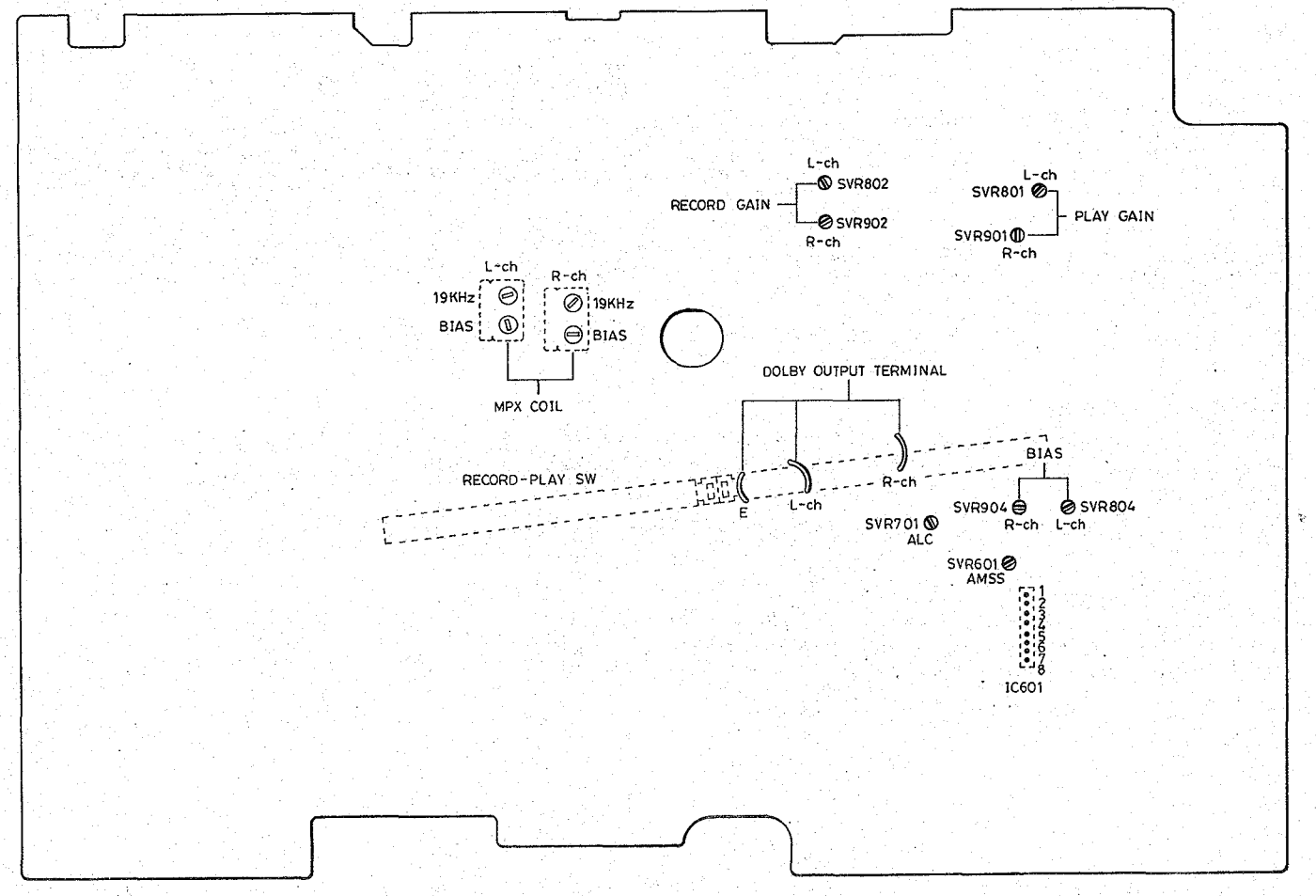
Adjustment of base point position

(1) Turn drum (53) clockwise to limit position, and stop.
(2) Have gears (56, 57) of tuner PCB engaged with the gear of the drum.
   a. Rotate gears (56, 57) to counterclockwise limit.
   b. Keeping the pitch difference of the two gears (56, 57) by two threads, with gear (56) being advanced to gear (57), engage them with the gear of the drum (53).
(3) Set the needle in place, stretch the rope taut a couple of times, and adjust the needle to the Vertical marker line on the dial scale.

CAUTION: When fitting a new gear (56), since a boss is provided near the position of threading the spring coil (58) on the gear (56), side, get the two gears (56, 57) meshed with the drum gear, disregarding the pitch difference of the two in this case, and then cut off the boss by means of nippers. This ends complete fitting of a new gear.



PARTS LOCATION



ADJUSTMENT OF AMPLIFIER SECTION

When adjusting, set the switches and knobs in the following positions.

Mode selector: STEREO
Bass, treble controls: Center
Band selector: FM
Recording level control knob: MAX
Tape selector: NORMAL
Balance control: Center
ALC switch: OFF
Dolby NR switch: OFF
Volume control: MIN
Mixing MIC volume control: MIN
Selector switch: TAPE
LINE PHONO switch: LINE

Step	Adjustment	Tape used	Measuring point	Input terminal	Frequency	Input level	Switch	Adjusting point	Procedure and target value
1	Azimuth adjustment	10kHz −10dB	Ext. speaker terminal					Azimuth adj. screw of head	Adjust to obtain max. P/B output.
2	P/B gain adjustment	MTT-150 (DOLBY tape)	*Dolby output					SVR801 SVR901	Adjust to obtain Dolby output of 580mV.
3	Bias coarse adjustment	Blank tape AC-212	Dolby output	LINE IN	1kHz	−37dB (14mV)		REC level control	Change to LINE IN, set in record mode, and adjust to obtain Dolby output of 30mV.
					1kHz 10kHz	—		SVR804 SVR904	Taking record signal of 1kHz as 0dB, record 10kHz, and adjust so that P/B signal of 10kHz may be 0dB ± 1dB.
4	Record gain adjustment	Blank tape AC-212	Dolby output	LINE IN	1kHz	−17dB (140mV)		REC level control	In record mode, adjust Dolby output to 0.58V.
								SVR802 SVR902	Record signal, and adjust so that P/B output level becomes 0.58V.
5	Bias adjustment	Blank tape AC-212	Dolby output	LINE IN	1kHz	−37dB (14mV)	DOLBY SW ON	REC level control	In record mode, adjust Dolby output to 30mV.
					1kHz 10kHz	—	DOLBY SW ON	SVR804 SVR904	Taking record signal of 1kHz as 0dB, record 10kHz, and adjust so that P/B signal of 10kHz becomes 0dB ± 1.5dB.
6	ALC adjustment	—	Dolby output	LINE IN		−7dB (440mV)	ALC ON	SVR701	In record mode, adjust so that Dolby output may be the same in both L and R channels.

* Dolby output refers to the output between pin 7 side (H) of Dolby IC and earth side (E) of R/P switch.

AMSS ADJUSTMENT

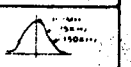
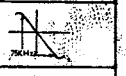
Have each control switch/control set in the same position as in the case of preparation, turn ON the AMSS button and mechanism playback button, respectively, and proceed to AMSS adjustment according to the following procedures:

(1) Have the set kept under the AMSS CUE state, and run the 1 kHz, −35 dB test tape from its winding beginning.
(Set the counter in the "000" display at the start of winding.)
(2) Short-circuit pin (7) and pin (3) (GND) of IC601.
(3) Adjust SVR601 so that the output of pin (2) of IC601 becomes 450 mV. (Note: Complete adjustment of SVR601 before the counter displays "050".)
(4) Release short-circuiting of the foregoing step 2.

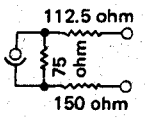
TUNER ADJUSTMENT

FM ALIGNMENT

DC Voltage is 15V, and Speaker impedance 2.5 ohms, Output power 50mW. (0.35V)

Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	I. F.	Connect sweep generator to FM TP1 (H) & TP2 (E)	Connect oscilloscope to test point TP4 (IC 5 pin) (H) shield case (E)	10.7 MHz (none modulation)	Near max. capacity of VC. at position with no unrequired signal.	T301	
2	Ratio Det.		Connect oscilloscope to test point 5 (R311) (H) shield case (E)			T304	
3	OSC	Connect FM SG. to TP1 (H) & TP2 (E)	Connect VTVM to speaker terminal.	87 MHz (400 Hz 30% modulation)	Low end of dial scale	L108	Max.
4				109MHz (400 Hz 30% modulation)	High end of dial scale	CT3	
5	AERIAL	Connect FM SG. to TP1 (H) & TP2 (E)	Connect VTVM to speaker terminal.	90 MHz (400 Hz 30% modulation)	90 MHz on dial scale	L103 ~ L106	Max.
6				106 MHz (400 Hz 30% modulation)	106 MHz on dial scale	CT1, CT2	
7	Repeat adjustments.						

PREPARE:
1. Variable Capacitors completely closed.
2. Set the dial pointer to very left line of dial scale.
3. Connect sweep generator, FM SG, VTVM and oscilloscope. FM aerial input impedance is 300 ohm.
4. Use a screwdriver with plastic grip for all adjustments.
5. AFC switch OFF.
   * Because an AFC is incorporated, FM tracking and frequency coverage adjustments have to be made. Use a small input (about 10dB) for this purpose.



MW ALIGNMENT

Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	I F	Connect sweep generator to TEST LOOP	Connect oscilloscope to to EXT. SP.	455 KHz	Low end of dial scale at position of no unrequired signal.	T302, T303	Max.
2	OSC	Connect A. M. SG to TEST LOOP	Connect VTVM to EXT. SP terminals	505 KHz (400 Hz 30% modulation)	Low end of dial scale	L115	Max.
3				1650 KHz (400 Hz 30% modulation)	High end of dial scale	CT9	
4	AERIAL	Connect A. M. SG to TEST LOOP	Connect VTVM to EXT. SP terminals	600 KHz (400 Hz 30% modulation)	600 KHz on dial scale	L112b	Max.
5				1400 KHz (400 Hz 30% modulation)	1400 KHz on dial scale	CT8	
6	Repeat adjustment						

PREPARE:
1. Variable capacitor completely closed.
2. Set the dial pointer to very left line on dial scale.
3. Use a screwdriver with plastic grip for all adjustments.
4. Selector switch to "MW".
5. Use a dummy of back lid and Rod Antenna, adjust tracking point.

SW 1 ALIGNMENT

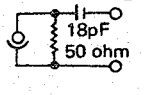
Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	OSC	Connect AM SG to Test Loop.	Connect VTVM to EXT. SP. terminals.	2.2 MHz (400 Hz 30% modulation)	Low end of dial scale.	L114	MAX
2				7.3 MHz (400 Hz 30% modulation)	High end of dial scale.	CT7	
3	AERIAL	Connect AM SG to Test Loop.	Connect VTVM to EXT. SP. terminals.	2.5 MHz (400 Hz 30% modulation)	2.5 MHz on dial scale	L112a	MAX
4				6.5 MHz (400 Hz 30% modulation)	6.5 MHz on dial scale.	CT6	
5	Repeat adjustments.						

PREPARE:
1. Variable capacitor completely closed.
2. Set the dial pointer to very left line dial scale.
3. Connect sweep generator, AM SG; VTVM and oscilloscope.
4. Use screwdriver with plastic glip for all adjustments.
5. Selector switch to "SW 1".
6. Set the Fine Tuning to mechanical center.
7. Use a dummy of back lid and Rod Antenna, and tracking point.

SW 2 ALIGNMENT

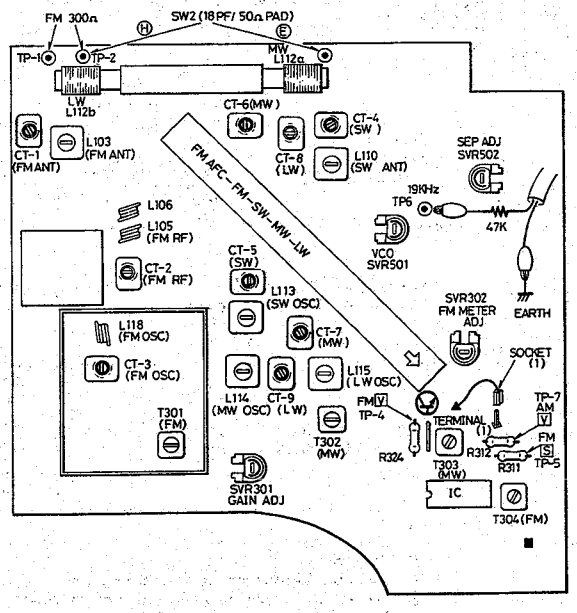
Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	OSC	Connect AM SG to aerial terminal, through IRE dummy.	Connect VTVM to EXT. SP. terminals.	6.8 MHz (400 Hz 30% modulation)	Low end of dial scale.	L113	MAX.
2				22.7 MHz (400 Hz 30% modulation)	High end of dial scale.	CT5	
3	AERIAL	Connect AM SG. to aerial terminal through IRE dummy.	Connect VTVM to EXT. SP. Terminals.	8.0 MHz (400 Hz 30% modulation)	7.5 MHz on dial scale	L110	MAX.
4				21.0 MHz (400 Hz) 30% modulation)	21.0 MHz on dial scale.	CT4	
5	Repeat adjustments.						

PREPARE:
1. Variable capacitor completely closed.
2. Set the dial pointer to very left line dial scale.
3. Connect signal generator to dummy aerial.
4. Use screwdriver with plastic glip for all adjustments.
5. Selector switch to "SW 2".
6. Set the Fine Tuning to mechanical center.



Cautions for FM adjustment

* Input points of FM
  IF hot side (H): TP1
  IF earth side (E): TP2
  Output points
  IF hot side (H): V-curve ... base of R324
  S-curve ... base of R330
  IF earth side (E): earth near T302 case
* FM antenna dummy is of 300-ohm balanced type.
* Coverage adjustment should be based on the graduations of the dial scale.



Adjustment of tuning meter

1. Tune in to 98 MHz in FM band, and set the SG input to 66 dB, 22.5 kHz dev.
2. Turn SVR301 until the meter reads 9.5.

Adjustment of FM multiplex

This adjustment should be done after adjustment of FM tuner.

Carrier signal modulation frequency:
1000 Hz ± 22.5 kHz dev.
Pilot signal (19 kHz): ±7.5 kHz dev.

Adjustment	Tuning frequency	Connection method of instruments		Freq. of sig. gen.	Adj. point	Traget value	Method of adjustment
		Input side	Output side				
VCO (19 kHz)	98 MHz	Connect hot side of FM-SG to TP1, earth side to TP2.	Connect hot side of freq. counter to TP3, earth side to shield case.	98 MHz	SVR501	19 kHz ±100kHz	(1) In FM stereo mode, set output of FM-SG to 66 dB, and tune in. (2) * Adjust with no modulation
Separation	98 MHz		Connect DVTVM and oscilloscope to output speaker terminals, adjust volume control to standard output in both L and R channels.	98 MHz	SVR502	Balance in L and R channels, 1,000 Hz: above 30 dB	(1) In FM stereo mode, set FM-SG to 66 dB, and tune in. (2) With tone controls at MIN and balance control in the center, adjust volume control to standard output. (3) By changing over the channels* on stereo modulator, adjust the leakage current of opposite channel to minimum.

* "No modulation" means to set MAIN & SUB signal and PILOT signal of stereo modulator to "OFF" position.
* When changing over the channels, exchange the connections of the external speaker terminals at the same time.
* Set band selector to FM, and mode selector to STEREO.

HEAD REPLACEMENT AND AZIMUTH ADJUSTMENT

After replacing the head, demagnetize it by head cleaning and with head eraser.

Play back the azimuth adjustment test tape (VTT-658, 10 kHz for instance), and turn the azimuth adjusting screws with a Phillips screwdriver so that the left and right outputs become the maximum for both the SIDE 1 and SIDE 2 of cassette.

ADJUSTMENT OF MECHANISM

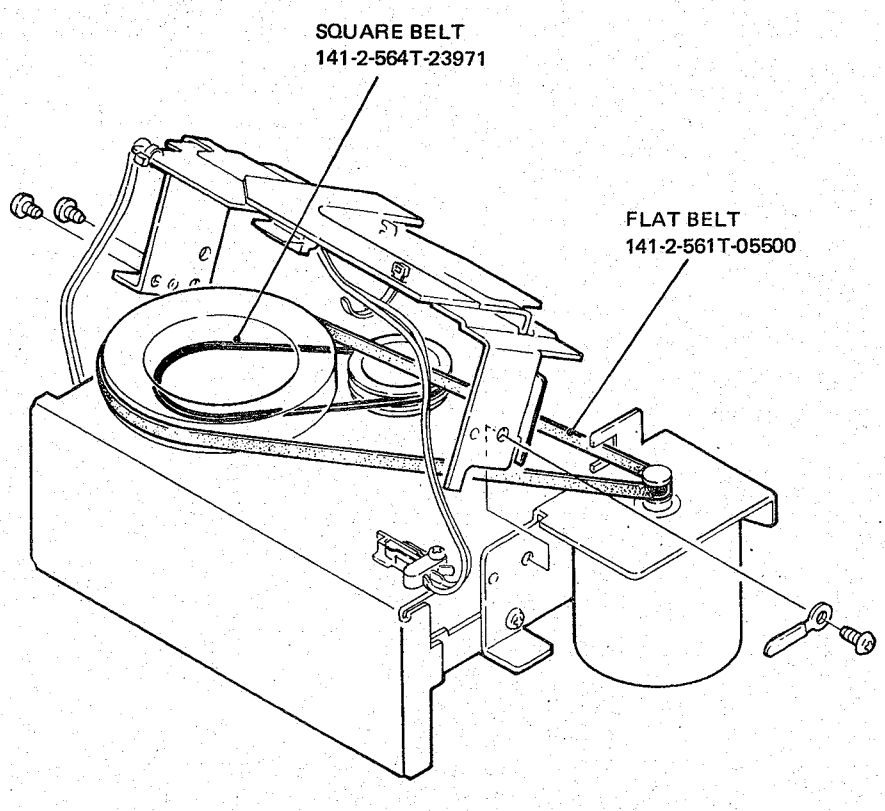
* Prior to the following measurements, clean the head, capstan and pinch roller.
* Check the following torques and tensions:

Measuring item	Take-up torque	Back tension	Tape tension
Measuring cassette	PLAY: TW-2111 F.FWD/REW: TW-2231	PLAY/F.FWD: TW-2111 REW: Torque gauge	Drive Power Cassette TW-2412
PLAY	35 ~ 60 g-cm	3 ~ 5 g-cm	Greater than 180 g-cm
F.FWD	90 ~ 130 g-cm	3 ~ 5 g-cm	–
REW	90 ~ 130 g-cm	4 ~ 8 g-cm	–

BELT REPLACEMENT

Unscrew 3 pan head Taptite M3 x 4 used to fasten the flywheel bracket.

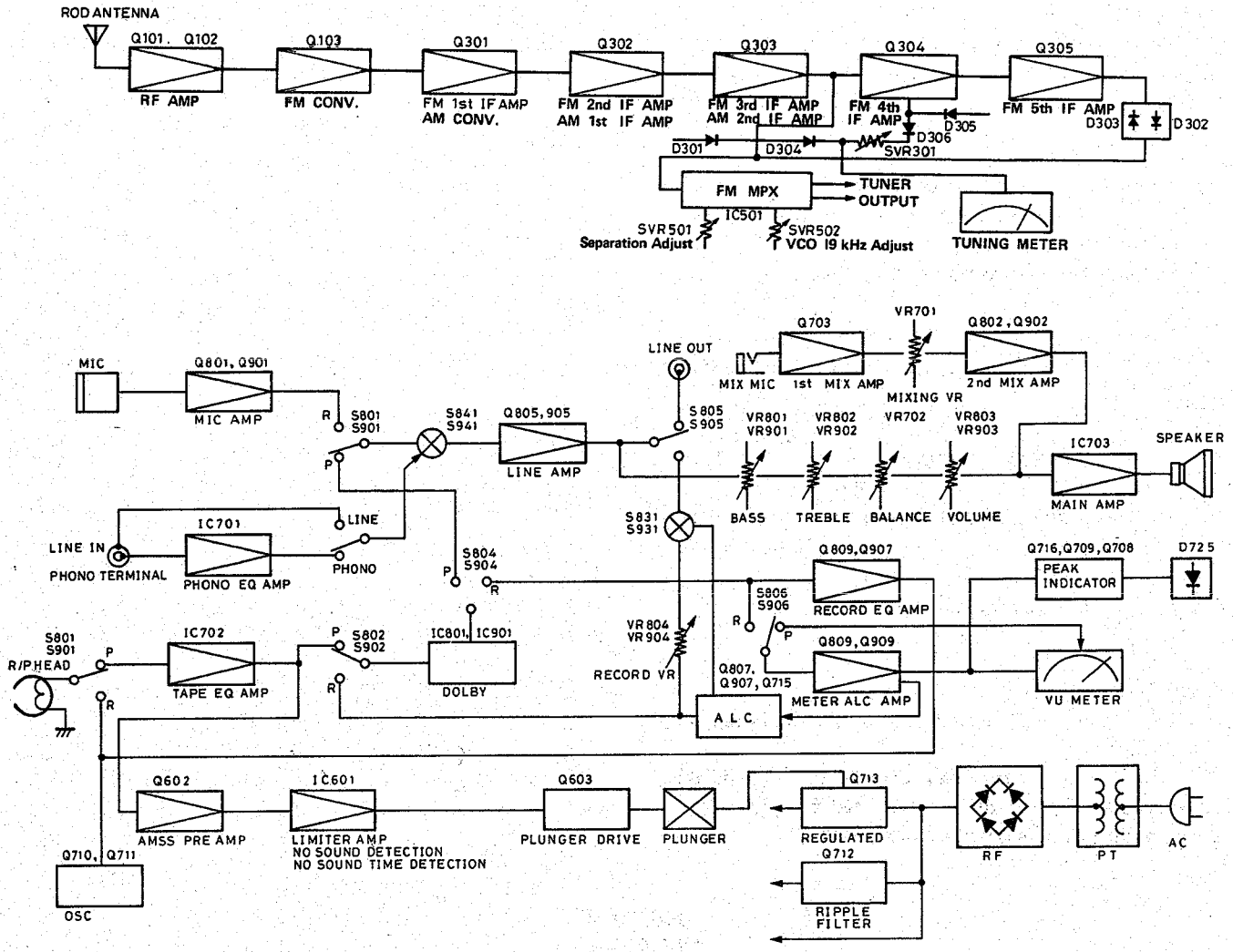
As the fixer shaping the lead wire is unfastened, the flywheel bracket comes off as illustrated below, and the existing condition enables belt replacement.



ADJUSTMENT OF MOTOR SPEED

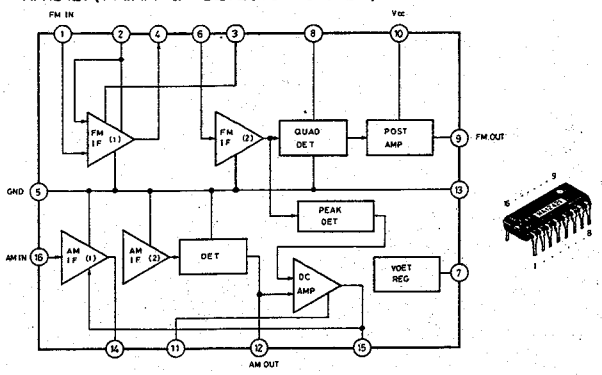
Play back the test tape (MTT-111, 3 kHz for instance), and turn a SVR provided on the back of the motor with a blade screwdriver so that the frequency counter displays 3,000 Hz.

BLOCK DIAGRAM

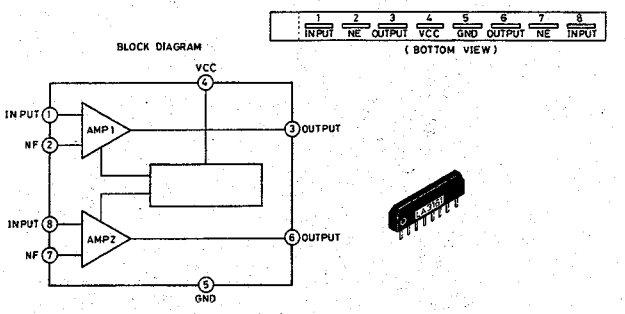


IC BLOCK DIAGRAM

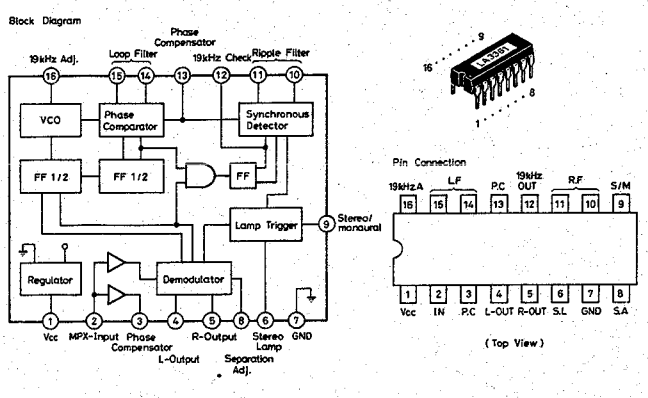
HA12421 (FM/AM IF+DETECTOR SYSTEM)



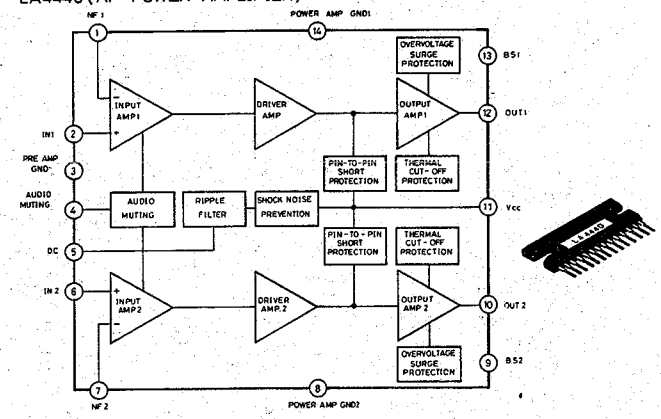
LA3161 (2 CHANNEL PRI-AMPLIFIER)



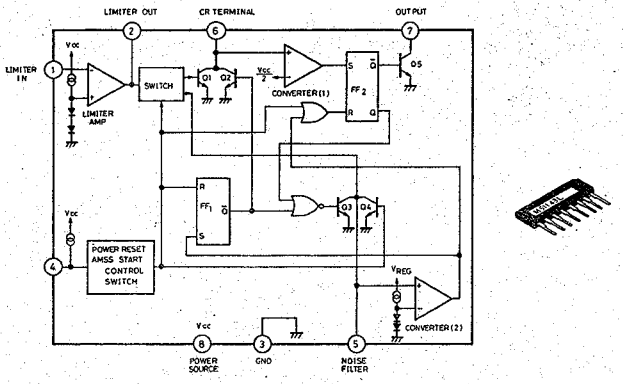
LA3361 (PLL FM Multiplex Stereo Demodulator)



LA4440 (AF POWER AMPLIFIER)



M51143L (AMSS SYSTEM)



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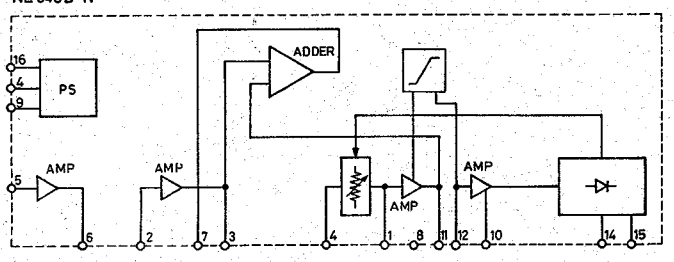
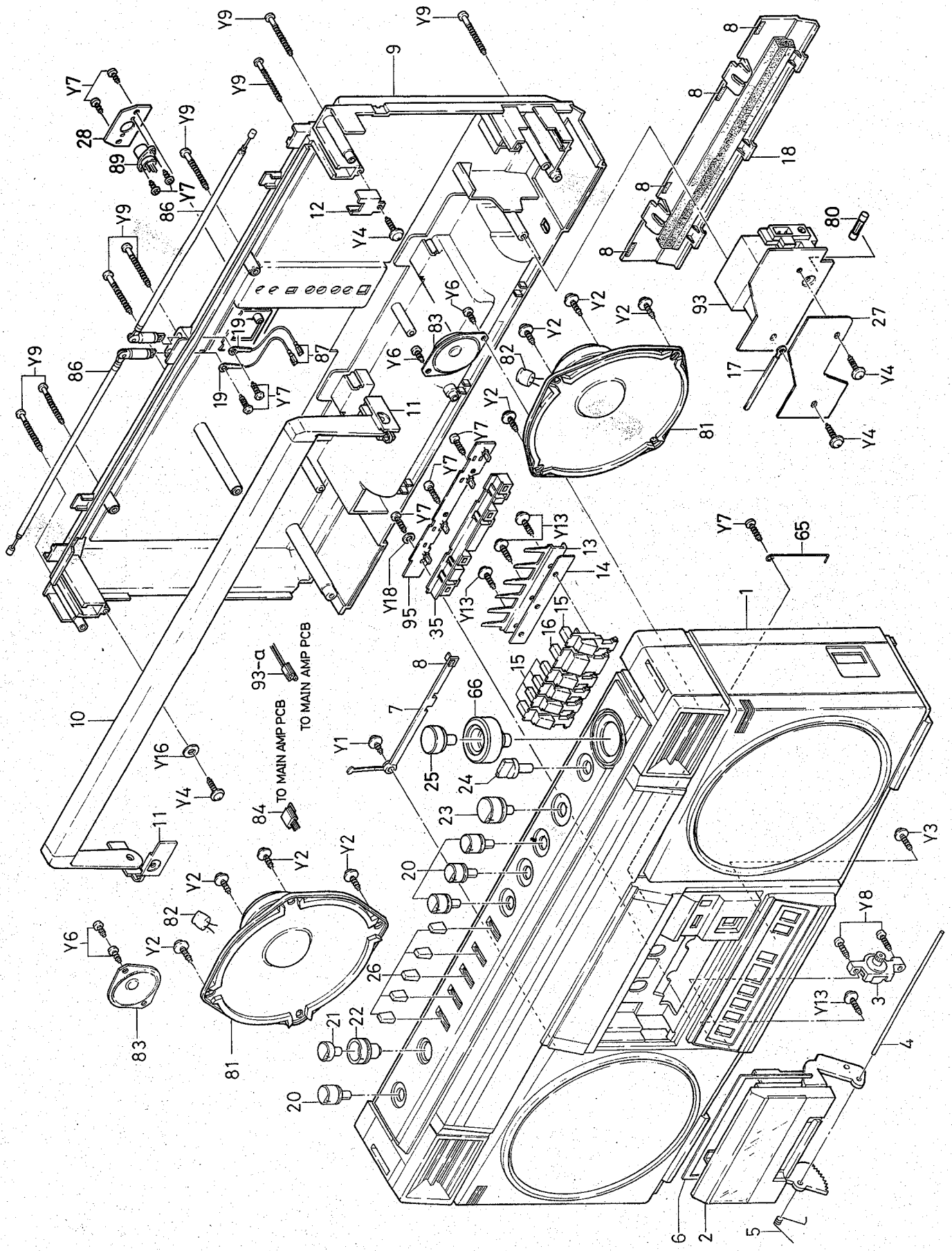


CABINET EXPLODED VIEW

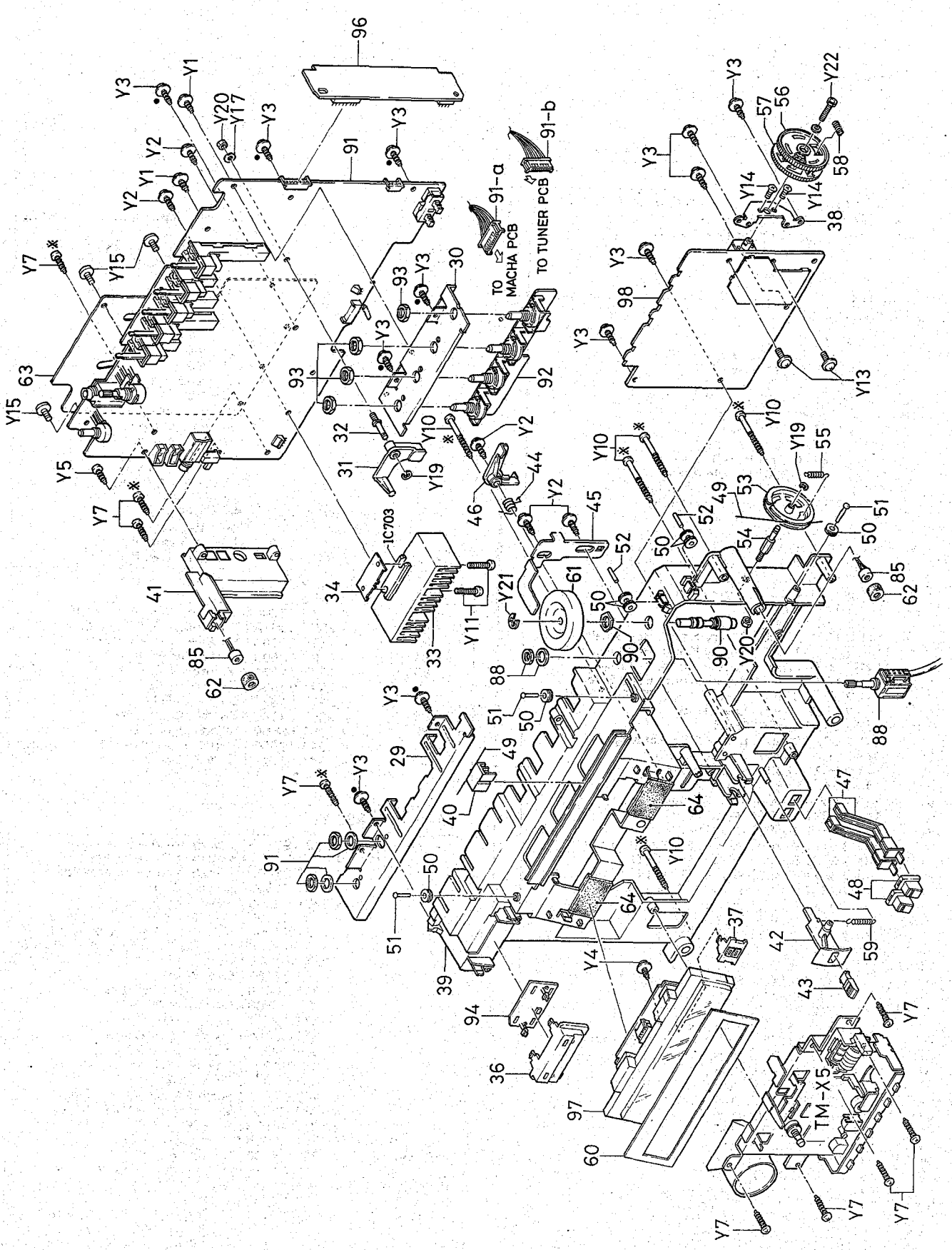


PARTS LIST

Key No.	Part No.	Description	Q'ty
PACKING			
	141-6-133T-27404	Individual Carton	1
	141-6-144T-74300	Foam Plastic Case	1
	141-6-144T-74400	Foam Plastic Case	1
	141-6-231T-20350	Inner Polye Cover, Inst M	1
	141-2-171T-17700	Handle	1
	141-6-317T-33800	Pad	1
	141-6-231T-80605	Inner Polye Cover, Set	1
ASSESSORY			
	141-6-410T-68200	Instruction Manual	1
	4-243T-77980	Power Cord	1
	4-241T-10891	Cassette Tape C-12	1
CABINET & CHASSIS			
1	141-0-111T-47903	Cabinet Ass'y	1
2	141-0-124T-31120	Top Lid Ass'y	1
3	141-0-581T-18701	Gear Ass'y	1
4	141-2-753T-91200	Shaft, Top Lid	1
5	141-2-855T-77301	Spring Coil, Top Lid	1
6	141-2-246T-88600	Sheet	1
7	141-2-742T-69400	Lever, Top Lid	1
8	141-2-447T-00800	Cushion	7
9	141-0-126T-35803	Back Lid Ass'y	1
10	141-0-171T-17900	Handle Ass'y	1
11	141-2-271T-18000	Bracket, Handle	2
12	141-2-271T-18700	Bracket, Handle	1
13	141-2-853T-72400	Spring-Plate	1
14	141-2-246T-90801	Sheet	1
15	141-2-161T-88300	Push Button, Mechanism	5
16	141-2-161T-88200	Push Button, Mechanism	1
17	123-2-472R-01001	Lug	1
18	141-0-128T-17000	Battery Lid Ass'y	1
19	123-2-472R-00401	Lug	2
20	141-2-163T-77800	Rotary Knob	4
21	141-2-163T-77600	Rotary Knob, Rec Small	1
22	141-2-163T-77400	Rotary Knob, Rec Lage	1
23	141-2-163T-77500	Rotary Knob, Volume	1
24	141-2-163T-77700	Rotary Knob, Band Select	1
25	141-2-163T-83100	Rotary Knob, Tuning Small	1
26	141-2-162T-19300	Lever Knob	5
27	141-2-246T-94500	Sheet	1
28	141-2-367T-33600	Bracket, Socket Mtg.	1
29	141-2-365T-54800	Bracket, Switch	1
30	141-2-361T-18900	Bracket, VR	1
31	141-2-742T-65800	Lever, Rec	1
32	123-2-566R-12000	Tuning Shaft	1
33	141-2-368T-21700	Heatsink, IC	1
34	141-2-368T-19600	Heatsink	1
35	141-2-352T-51100	Spacer, Machanism LED	1
36	141-2-352T-51200	Spacer, Dial LED	1
37	141-2-352T-51400	Spacer, Meler LED	1
38	141-2-363T-13100	Bracket, Capacitor	1
39	141-2-311T-38000	Chassis	1
40	141-2-511T-21400	Pointer	1
41	141-2-367T-35201	Bracket, Amp	1
42	141-2-742T-65900	Lever, Eject	1
43	141-2-162T-19400	Lever, Knob	1
44	141-2-855T-77400	Spring Coil	1
45	141-2-731T-91000	Slide, Eject	1
46	141-2-742T-66000	Lever, Eject	1
47	141-2-731T-90800	Slide, Edit	1
48	141-2-161T-91200	Push Button, AMSS Edit	2
49	141-2-340T-05003	Rope	1
50	141-2-661T-24600	Pulley	7
51	141-2-567T-02000	Pulley Shaft	3
52	141-2-567T-02700	Pulley Shaft	2
53	141-2-538T-09800	Drum	1
54	141-2-753T-90500	Shaft	1
55	141-2-851T-06300	Spring Coil	1
56	141-2-581T-20300	Gear	1
57	141-2-581T-20400	Gear	1
58	141-2-855T-26100	Spring Coil	1
59	141-2-855T-78000	Spring Coil	1
60	141-2-245T-11000	Back Plate	1
61	141-2-521T-10500	Flywheel	1
62	141-2-385T-03700	Bracket, Mic	2
63	141-2-322T-68900	Shield Plate	1

Key No.	Part No.	Description	Q'ty
CABINET & CHASSIS			
64	141-2-447T-48602	Cushion	2
65	141-2-855T-84700	Spring Coil	1
66	141-2-163T-83200	Rotary Knob, Tuning Large	1
HARDWARE			
Y1		Pan Hd. Tapping Screw w/washer 3 x 6	3
Y2		Pan Hd. Tapping Screw w/washer 3 x 8	11
Y3		Pan Hd. Tapping Screw w/washer 3 x 10	21
Y4		Pan Hd. Tapping Screw w/washer 3 x 12	4
Y5		TH. Lock Washer 3x6.5x0.45t	1
Y6		Pan Head Tapping Screw 3 x 8	8
Y7		Pan Head Tapping Screw 3 x 10	17
Y8		Pan Head Tapping Screw 3 x 14	2
Y9		Pan Head Tapping Screw 3 x 25	8
Y10		Pan Head Tapping Screw 3 x 35	5
Y11		Pan Head Screw 3 x 12	2
Y13		Pan Hd. Screw w/washer 3 x 6	2
Y14		Flat Head Screw 2.6 x 4	2
Y15		Bindind Head Screw 3 x 6	3
Y16		Washer 3 x 13 x 1t	1
Y17		Washer 3 x 8 x 0.5t	1
Y18	141-2-453T-00800	Washer	1
Y19	141-2-457T-23000	Special Washer	2
Y20		Hexagon Nut 3 mm	2
Y21	141-2-457T-23401	Special Washer	1
Y22		Hexagon Head Bolt 2.6 x 10	1
ELECTRICAL PARTS			
81	4-151T-37200	Speaker, Woofer 16cm 10W	2
82	4-252T-03910	Choke Coil (L804, 904)	2
83	4-151T-37000	Speaker, Tweeter 4cm	2
84	4-240T-06500	Socket SP-AMP	1
85	4-153T-11771	Microphone	2
86	4-244T-04900	Rod Antenna	2
87	4-235T-34600	Socket, ANT	5
88	4-238T-38100	Switch, Band Select	1
89	4-235T-56500	Socket, Ext ANT	1
90	4-224T-19600	Variable Capacitor, Fine Tuning	1
80	4-234T-06271	Fuse 3.15A	1
AMP PCB ASS'Y			
91	141-4-233T-93173	P.C. Board Ass'y, Amp	1
	4-238T-31700	Switch, TR/Radio/Phono	1
	4-238T-31800	Switch, Mono/Stereo/Wide	1
	4-238T-31900	Switch, Dolby	1
	4-238T-32000	Switch, ALC	1
	4-238T-32100	Switch, Normal/CR02/Metal	1
	4-222T-91900	Variable Resistor 10K-A, Input	1
	4-222T-92100	Variable Resistor 10K-A, Mixing	1
	4-235T-60600	Socket	1
	4-240T-11100	Socket, Mixing	1
	4-235T-38000	Socket, Ext Speaker	2
	4-238T-26800	Switch, R/P	1
	4-238T-26871	Switch, R/P	1
	4-231T-65200	Switch, Beat Cancel	1
	4-236T-10293	Plug, E Head	1
	4-236T-10200	Plug, R/P Head	1
	4-236T-10571	Plug, Speaker	1
	4-240T-11372	Socket, Mechanism LED	1
	4-238T-31500	Switch, Edit/AMSS	1
	4-236T-10593	Plug 2P	1
L801,901	4-253T-01006	Hi-Frequency Choke	2
L802,902	4-252T-05600	Choke Coil	2
L701	4-253T-01014	Hi-Frequency Choke	1
L803,903	4-255T-01673	Mx, Coil	2
	4-258T-26700	OSC Coil	1
SVR905	4-222T-71177	Semi-fixed Variable Resistor, 50K	1
SVR701	4-222T-71174	Semi-fixed Variable Resistor, 5K	1

CHASSIS EXPLODED VIEW



PARTS LIST

Key No.	Part No.	Description	Q'ty
AMP PCB ASS'Y			
SVR801 901	4-222T-71175	Semi-fixed Variable Resistor, 10K	4
802, 902			
SVR804 904	4-222T-71178	Semi-fixed Variable Resistor, 100K	2
SVR601	4-222T-71180	Semi-fixed Variable Resistor,500K	1
	4-235T-65372	Socket, 4P, VR	1
91-a	4-240T-11500	Socket 7P, Mecha-Amp	1
91-b	4-235T-38796	Socket 9P, Socket-Amp	1
	4-235T-38791	Socket, 4P, Socket-Amp	1
	4-235T-65371	Socket, PCB-Amp	2
	4-240T-16700	Socket, Amp-Tuner	1
IC601		IC M51143L	1
IC703		IC LA4440	1
IC702		IC LA3161	1
IC801,901		IC NE646BNY	2
Q801,901, 701,703, 805,905,		Transistor, 2SC536	6
Q809,909 811,911, 708,709		Transistor, 2SC536	6
Q712,715, 602,604		Transistor, 2SC536	4
Q802,902, 704,705, 803,903		Transistor, 2SC536	6
Q804,904 806,906, 808,908		Transistor, 2SC536	6
Q810,910 710,711 716		Transistor, 2SC536	5
Q807,907		Transistor, 2SC536 ALC	2
Q702,706 707		Transistor, 2SA1015	3
Q713,		Transistor, 2SD325	1
Q603		Transistor, 2SA999	1
D730		Diode DS130 TE	1
D701,702 703,704, 705,706		Diode DS442 X	6
D707,708, 801,901, 710		Diode DS442 X	5
D712,713, 714,715, 717		Diode DS442 X	5
D802,902 803,903, 806,906		Diode DS442 X	6
D807,907 718,728		Diode DS442 X	4
D804,904 805,905		Diode 1S189 FM	4
D716		Zener Diode GZA10U	1
D809,909, 810,910, 811,911		Zener Diode GZA18L	6
D735		Zener Diode GZA3.3	1
D808,908, 719		Diode DS442 X	3
D814,914		Diode DS442 X	2
	RESISTORS		
R613		Carbon 120 ohm ± 10% 1/4W	1
R612		Carbon 820 ohm ± 10% 1/4W	1
R616		Carbon 1.5K ohm ± 10% 1/4W	1
R608		Carbon 2.2K ohm ± 10% 1/4W	1
R607		Carbon 6.8K ohm ± 10% 1/4W	1
R617		Carbon 10K ohm ± 10% 1/4W	1
R615,604		Carbon 22K ohm ± 10% 1/4W	2
R614		Carbon 100K ohm ± 10% 1/4W	1
R601,602		Carbon 120Kohm ± 10% 1/4W	2
R609		Carbon 47K ohm ± 10% 1/4W	1
R610		Carbon 470Kohm ± 10% 1/4W	1
R605,611		Carbon 820Kohm ± 10% 1/4W	2
R730,751 756		Carbon 1 ohm ± 10% 1/4W	3
R744,835, 935		Carbon 4.7 ohm ± 10% 1/4W	3

Key No.	Part No.	Description	Q'ty
AMP PCB ASS'Y			
	RESISTORS		
R816,916		Carbon 10 ohms ± 10% 1/4W	2
R743,822, 922		Carbon 22 ohms ± 10% 1/4W	3
R718		Carbon 27 ohms ± 10% 1/4W	1
R748		Carbon 47 ohms ± 10% 1/4W	1
R843,943, 870,970		Carbon 56 ohms ± 10% 1/4W	4
R736,746		Carbon 68 ohms ± 10% 1/4W	2
R876,976, 711		Carbon 100 ohm ± 10% 1/4W	3
R854,954		Carbon 180 ohm ± 10% 1/4W	2
R735,704,		Carbon 220 ohm ± 10% 1/4W	2
R821,921		Carbon 390 ohm ± 10% 1/4W	2
R709,841, 941		Carbon 270 ohm ± 10% 1/4W	3
R803,903		Carbon 220 ohm ± 10% 1/4W	2
R737		Carbon 470 ohm ± 10% 1/4W	1
R721,761		Carbon 560 ohm ± 10% 1/4W	2
R701,708 852,952, 851,951		Carbon 1K ohms ± 10% 1/4W	6
R864,964, 871,971, 514,515		Carbon 1K ohms ± 10% 1/4W	6
R874,974 752,888, 988		Carbon 1.2K ohm ± 10% 1/4W	5
R715,720		Carbon 1.5K ohm ± 10% 1/4W	2
R829,929		Carbon 220K ohm ± 10% 1/4W	2
R723		Carbon 330 ohm ± 10% 1/4W	1
R823,923		Carbon 470 ohm ± 10% 1/4W	2
R758		Carbon 1K ohms ± 10% 1/4W	1
R801,901		Carbon 1.5K ohm ± 10% 1/4W	2
R740,726 727,728, 729		Carbon 1.5K ohm ± 10% 1/4W	5
R866,966 873,973		Carbon 2.2K ohm ± 10% 1/4W	4
R839,939, 825,925		Carbon 2.7K ohm ± 10% 1/4W	4
R853,953, 714		Carbon 3.3K ohm ± 10% 1/4W	3
R819,919, 845,945, 860,960		Carbon 3.9K ohm ± 10% 1/4W	6
R877,977 857,957, 868,968		Carbon 4.7K ohm ± 10% 1/4W	6
R847,947 741		Carbon 5.6K ohm ± 10% 1/4W	3
R840,940, 818,918		Carbon 6.8K ohm ± 10% 1/4W	4
R875,975		Carbon 6.8K ohm ± 10% 1/4W	2
R880,980		Carbon 8.2K ohm ± 10% 1/4W	2
R707,861, 961		Carbon 8.2K ohm ± 10% 1/4W	3
R820,902 719,865, 965,739		Carbon 10K ohm ± 10% 1/4W	6
R712,713, 731,732, 745,898, 998		Carbon 12K ohm ± 10% 1/4W	7
R705,706, 858,958, 842,942		Carbon 15K ohm ± 10% 1/4W	6
R722		Carbon 15K ohm ± 10% 1/4W	1
R815,915, 820,920, 724		Carbon 22K ohm ± 10% 1/4W	5
R725,757		Carbon 22K ohm ± 10% 1/4W	2
R710		Carbon 33K ohm ± 10% 1/4W	1
R859,959		Carbon 2.2K ohm ± 10% 1/4W	2
R881,981, 830,930		Carbon 33K ohm ± 10% 1/4W	4
R886,986		Carbon 18K ohm ± 10% 1/4W	2
R879,979, 867,967		Carbon 2.2K ohm ± 10% 1/4W	4
R837,937 862,962		Carbon 39K ohm ± 10% 1/4W	4

PARTS LIST

Key No.	Part No.	Description	Q'ty
AMP PCB ASS'Y			
R763,848, 948		Carbon 47K ohm ± 10% 1/4W	3
R762		Carbon 2.7M ohm ± 10% 1/4W	1
R744,835, 935		Carbon 4.7 ohm ± 10% 1/4W	3
R730,751, 756		Carbon 1 ohm ± 10% 1/4W	3
R805,905 702,838, 938,844		Carbon 100K ohm± 10% 1/4W	6
R944,833, 933		Carbon 100K ohm ±10% 1/4W	3
R914,814		Carbon 10K ohm ±10% 1/4W	2
R738		Carbon 120K ohm ±10% 1/4W	1
R850,950		Carbon 180K ohm ±10% 1/4W	2
R872,972		Carbon 220K ohm ±10% 1/4W	2
R863,963		Carbon 270K ohm ±10% 1/4W	2
R824,924		Carbon 680K ohm ±10% 1/4W	2
R804,904, 717,846, 946		Carbon 820K ohm ±10% 1/4W	5
R855,955, 856,956, 885,985 897,997		Carbon 1M ohms ±10% 1/4W	8
R878,978		Carbon 2.2M ohm ±10% 1/4W	2
R817,917		Carbon 15K ohm ±10% 1/4W	2
R834,934		Carbon 150 ohm ±10% 1/4W	2
R869		Carbon 15K ohm ±10% 1/4W	1
R733,734, 747		Carbon 5.6K ohm ±10% 1/4W	3
R849,949		Carbon 270K ohm ±10% 1/4W	2
R760		Carbon 1.8M ohm ±10% 1/4W	1
R836,936		Solid 100 ohms ±10% 1/2W	2
R750		Solid 330 ohms ±10% 1/2W	1
R749		Solid 560 ohm ±10% 1/2W	1
	CAPACITORS		
C607		Electrolytic, 33μF, 16V	1
C601		Electrolytic, 1μF, 50V	1
C606		Mylar, 0.15μF, 50V ± 5%	1
C605		BC, Con. 0.1μF, 25V ± 20%	1
C602		BC, Con. 0.012μF, 25V ± 20%	1
C608		Ceramic 10pF, 50V, ± 10%	1
C609		Ceramic 68pF, 50V ± 10%	1
C604		Electrolytic, 2.2μF, 25V	1
C814,914		Ceramic, 82pF, 50V, ±10%	2
C832,932, 872,972, 858		Ceramic 100pF, 50V, ±10%	5
C958,873, 973,875, 975		Ceramic, 100pF, 50V,±10%	5
C710,805 905		Ceramic, 180pF, 50V, ±10%	3
C870,970		Ceramic, 220pF, 50V, ±10%	2
C863,963		Ceramic, 150pF, 50V, ±10%	2
C862,962		Ceramic, 470pF, 50V, ±10%	2
C842,942		Ceramic, 680pF, 50V, ±10%	2
C849,949		Ceramic, 0.022μF, 50V, +80 – 20%	2
C835,935		Ceramic, 680pF, 50V, ±10%	2
C748		Ceramic, 0.047μF, 50V,+80–20%	1
C847,947		BC, Con. 0.001μF, 25V, ±20%	2
C726,727		BC, Con. 0.0022μF, 25V ±20%	2
C724		BC, Con. 0.0047μF, 25V, ±20%	1
C725		BC, Con. 0.015μF, 25V, ±20%	1
C838,938		BC, Con. 0.033μF, 25V,±20%	2
C722,723		BC, Con. 0.0033μF, 25V,±20%	2
C876,976		Ceramic, 33pF, 50V, ±10%	2
C874,974		Ceramic, 390pF, 50V,±10%	2
C836,936		Ceramic, 0.0012μF, 50V, ±20%	2
C875,975		Ceramic, 100pF, 50V, ±10%	2
C844,944		Mylar, 0.0047μF, 50V, ±5%	2
C855,955		Mylar, 0.0056μF, 50V, ±5%	2
C728		Mylar, 0.018μF, 50V, ±5%	1
C854,954		Mylar, 0.027μF, 25V, ±10%	2
C860,960		Mylar, 0.027μF, 50V, ±5%	2

Key No.	Part No.	Description	
AMP PCB ASS'Y			
C861,961		Mylar, 0.033μF, 50V, ±5%	2
C853,953		Mylar, 0.047μF, 50V, ±5%	2
C830,930		Mylar, 0.1μF, 50V, ±20%	2
C864,964, 841,941, 851,951		AL, Electrolytic, 0.1μF, 10V +40 - 20%	6
C866,966		AL, Electrolytic, 0.22μF, 10V +40 - 20%	2
C850,950		AL, Electrolytic, 0.33μF, 10V +40 - 20%	2
C707		Electrolytic, 0.1μF, 50V	1
C762		Ceramic 0.01μF, 50V +80–20%	1
C806,906		Electrolytic, 0.47μF, 50V	2
C708,712, 831,931, 813,913		Electrolytic, 1μF, 25V	6
C816,916, 825,925, 834,934		Electrolytic, 1μF, 25V	6
C839,939, 845,945, 857,957		Electrolytic, 1μF, 25V	6
C859,959, 867,967, 869,969		Electrolytic, 1μF, 25V	6
C743		Electrolytic, 1μF, 50V	1
C720		Electrolytic, 4.7μF, 10V	1
C803,903, 846,946, 856,956		Electrolytic, 4.7μF, 25V	6
C824,924, 840,940, 852,952		Electrolytic, 10μF, 10V	6
C704		Electrolytic, 3.3μF, 25V	1
C871,971, 843,943		Electrolytic, 10μF, 16V	4
C747		Electrolytic, 10μF, 16V	1
C703,714		Electrolytic, 33μF, 10V	2
C706,711 833,933		Electrolytic, 47μF, 10V	4
C837,937, 715,753		Electrolytic, 47μF, 10V	4
C729		Electrolytic, 10μF, 16V	1
C702		Electrolytic, 33μF, 10V	1
C829,929 731		Electrolytic, 47μF, 25V	3
C815,915		Electrolytic, 100μF, 6.3V	2
C733		Electrolytic, 100μF, 10V	1
C732		Electrolytic, 100μF, 25V	1
C848,948		Electrolytic, 220μF, 10V	2
C717		Electrolytic, 470μF, 25V	1
C701		Electrolytic, 330μF, 10V	1
C734		Electrolytic, 470μF, 10V	1
C828,928		Electrolytic, 1000μF, 16V	2
C736		Electrolytic, 3300μF, 25V	1
C713,750		Electrolytic, 47μF, 16V	2
C730		Electrolytic, 100μF, 16V	1
C755		Electrolytic, 22μF, 10V	1
C826,926		Electrolytic, 47μF, 25V	2
C827,927		Electrolytic, 100μF, 25V	2
C705,718, 719		Electrolytic, 100μF, 10V	3
C735	4-233T-12600	Capacitor 2200μF, 25V	1
VOLUME PCB ASS'Y			
92	141-4-233T-93271	P.C Board Ass'y VR	1
VR803, 903	4-222T-95100	Variable Resistor 50KBx2,Main	1
VR801,901 802 902	4-222T-91800	Variable Resistor,50K-A,Bass	2
VR702	4-222T-92000	Variable, Resistor,50K-W, Balance	1
Q812,912		Transistor 2SC536	2

PARTS LIST

Key No.	Part No.	Description	Q'ty
VOLUME PCB ASS'Y			
	CAPACITORS		
C883,881, 983,981		Electrolytic, 1μF, 25V	4
C754		Electrolytic, 47μF, 16V	1
C817,917		Electrolytic, 0.15μF, 50V	2
C821,921		Electrolytic, 0.33μF, 50V	2
C819,919		BC, Con. 0.01μF, 25V ±20%	2
C820,920		BC, Con. 0.022μF, 25V,±20%	2
C818,918, 822,922		BC, Con. 0.068μF, 25V, ±20%	4
C823,923		Ceramic, 0.0022μF, 50V, ±10%	2
C882,982		Ceramic, 82pF, 50V, ±10%	2
	RESISTORS		
R896,996		Carbon, 1.8K ohm ±10%, 1/4W	2
R831,931		Carbon, 1.5K ohm ± 10%, 1/4W	2
R832,932		Carbon, 2.7K ohm ± 10%, 1/4W	2
R827,927		Carbon, 5.6K ohm ± 10%, 1/4W	2
R828,928		Carbon, 10K ohm ±10%, 1/4W	2
R895,995		Carbon, 5.6K ohm ±10%, 1/4W	2
R894,994		Carbon, 680K ohm ±10%, 1/4W	2
POWER SUPPLY PCB ASS'Y			
93	141-4-250T-13572	P.C Board Ass'y, Power Supply	1
	4-300T-44700	Power Trans	1
	4-238T-37272	Switch, Voltage, Select	1
	4-235T-59871	Socket, AC/DC	1
	4-237T-00171	Terminal, Board	2
93-a	4-240T-06100	Socket	1
D726		Diode DS135 E	1
D731,732 733,734		Diode, DSA17 C	4
	141-2-381T-04200	Bracket Fuse	2
	CAPACITORS		
C739,740 741,742		Ceramic 0.047μF, 50V, +80 - 20%	4
C749		Electrolytic, 33μF, 50V	1
LED PCB ASS'Y			
94	141-4-233T-93401	P.C Board Ass'y, LED	1
D721,501		LED, SLP156B Red	2
	4-235T-92600	Socket, 2P	1
R510		Carbon, Res. 1.8K ohm ±10% 1/4W	1
MECHANISM LED PCB ASS'Y			
95	141-4-233T-93500	P.C Board, Ass'y, Mechanism LED	1
D722,723 724,602		LED, SLP155B Red	4
IN/OUT PCB ASS'Y			
96	141-4-233T-23900	P.C Board Ass'y, IN/OUT	1
	4-240T-08100	Socket, Ext. Mic	1
	4-240T-08200	Socket, Ext Mic	1
	4-240T-05900	Socket, Line, IN/Line, OUT	2
	4-240T-05971	Socket, Line, IN/Line, OUT	2
	4-236T-10276	Plug	1
	4-236T-10271	Plug	1
	141-0-382T-17601	Terminal, Ass'y, Phono/Earth	1
IC701		IC, LA3161	1
	4-235T-33300	Socket, DIN 5P with SW	1
	CAPACITORS		
C809,909		Electrolytic, 47μF, 10V	2
C807,907, 812,912		Electrolytic, 10μF, 10V	4
C811,911		BC, Con. 0.0068μF, 25V,±20%	2

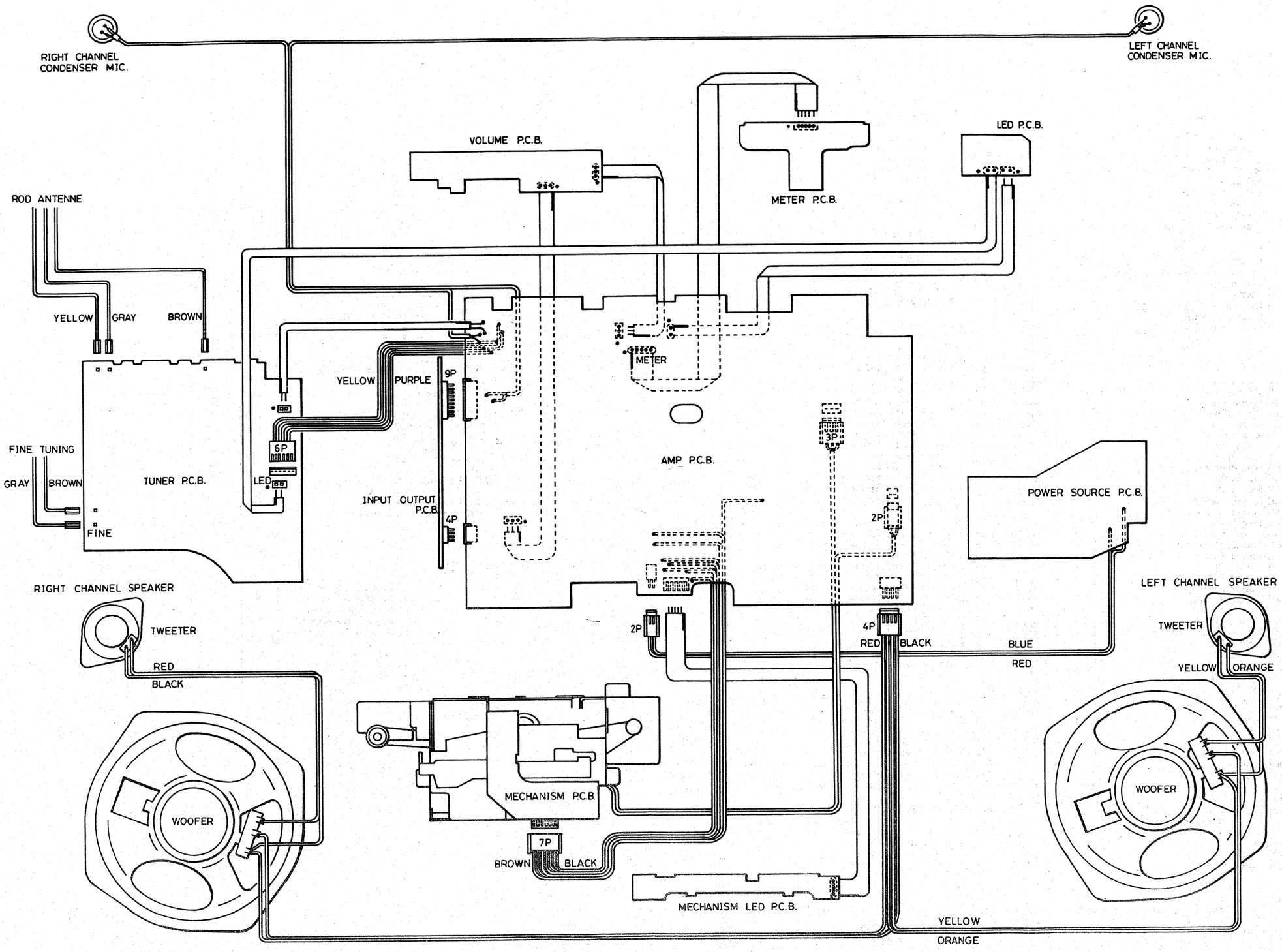
Key No.	Part No.	Description	Q'ty
IN/OUT PCB ASS'Y			
C808,908		Ceramic, 100pF, 50V, ±10%	2
C877,977		Ceramic, 0.0012μF, 50V, ±10%	2
C878,978		BC, Con. 0.033μF, 25V, ±20%	2
C802,902		AL, Electrolytic, 0.1μF, 25V, ±20%	2
C810,910		BC, Con. 0.033μF, 25V, ±20%	2
C879,979		BC, Con. 0.056μF, 25V, ±20%	2
C980		Ceramic, 470pF, 50V, ±10%	1
	RESISTORS		
R809,909		Carbon, 560 ohm ±10%, 1/4W	2
R808,908		Carbon, 2.2K ohm ±10%, 1/4W	2
R810,910		Carbon, 3.3K ohm ±10%, 1/4W	2
R812,912		Carbon, 10K ohm ±10%, 1/4W	2
R893,993		Carbon, 47K ohm ±10%, 1/4W	2
R811,911		Carbon, 82K ohm ±10%, 1/4W	2
R887,987		Carbon, 1K ohms ±10%, 1/4W	2
R807,907		Carbon, 47K ohm b10%, 1/4W	2
R890,891, 990,991		Carbon, 6.8K ohm ±10%, 1/4W	4
R892,992		Carbon, 2.7K ohm ±10%, 1/4W	2
R889,989		Carbon, 470K ohm±10%, 1/4W	2
METER PCB ASS'Y			
97	141-4-233T-99900	P.C Board Ass'y, Meter	1
	4-511T-12100	Meter	1
D725,727		LED, SLP141B Red	2
	4-240T-11272	Socket	1
R742,755		Carbon, Res. 1.5K ohm ±10% 1/4W	2
TUNER PCB ASS'Y			
98	141-4-233T-67873	P.C Board, Ass'y, Tuner	1
	4-224T-15200	Variable, Capacitor	1
L112A,B	4-257T-46601	Ant. Coil, Ass'y	1
L101,102	4-265R-11800	VHF Coil	2
L107	4-265R-11200	VHF Coil	1
L105,106	4-265R-11900	VHF Coil	2
L108	4-265T-51310	VHF Coil	1
L115	4-258T-14410	OSC Coil	1
L114	4-258T-22940	OSC Coil	1
L113	4-258T-08340	OSC Coil	1
L110	4-257T-29930	Ant. Coil, SW2	1
L109	4-253T-13200	Filter	1
T301	4-256R-20810	IFT	1
T304	4-256T-21410	IFT	1
T303	4-256T-21510	IFT	1
L103	4-257T-39240	Ant. Coil, FM	1
T302	4-256T-11210	IFT	1
CF303	4-256T-81171	IF, Filter	1
CF301,302	4-256T-80400	IF, Filter	2
SVR302	4-222T-39574	)or Semi-fixed, Variable, Resistor, 5K	1
	4-222T-71174		
SVR501	4-222T-39575	)or Semi-fixed, Variable, Resistor, 10K	1
	4-222T-71175		
	4-227T-02300	CR, Pack	2
S101-1~9	4-238T-21300	Switch	1
B102	123-2-471R-10400	Core	1
B101	123-2-471R-10900	Core	1
	141-2-322T-66200	Shield, Plate	1
	141-2-322T-34871	Shield, Plate	1
	4-236T-19774	Plug, 6P	1
	4-235T-65300	Socket, 2P	2
	4-232T-39572	)or Semi-fixed, Variable, Resistor, 1K	1
	4-222T-71172		
CT-1~3	4-224R-01472	Trimmer	3
CT-4~7	4-224R-01472	Trimmer	4
CT-9,8	4-224T-15400	Trimmer	2
	123-2-472R-00401	Lug, VC	1
Q101		Transistor, FET, 2SK195	1
Q102		Transistor, 2SC535	1
Q105		Transistor, 2SC930, Conv.	1
Q103,104		Transistor, 2SC930, Conv.	2
Q301		Transistor, 2SC930, IF	1
Q302		Transistor, 2SC536	1
IC301		IC HA12421A	1
IC501		IC LA3361	1

PARTS LIST

Key No.	Part No.	Description	Q'ty
TUNER PCB ASS'Y			
D101,102, 103,105, 301,303, 304,501		Diode DS442X or 1S2473	8
D104		Varactor Diode, SD115	1
	RESISTORS		
R101		Carbon, 470K ohm ±10%,1/4W	1
R102		Carbon, 220 ohm ±10%,1/4W	1
R103		Carbon, 1K ohm ±10%,1/4W	1
R104		Carbon, 820K ohm ±10%,1/4W	1
R105		Carbon, 1K ohm ±10%,1/4W	1
R106		Carbon, 6.8K ohm ±10%,1/4W	1
R107		Carbon, 22 ohms ±10%,1/4W	1
R108		Carbon, 560 ohm ±10%,1/4W	1
R110		Carbon, 100 ohm ±10%,1/4W	1
R111		Carbon, 100K ohm ±10%,1/4W	1
R112		Carbon, 10K ohm ±10%,1/4W	1
R113		Carbon, 1.2K ohm ±10%,1/4W	1
R114		Carbon, 3.3K ohm ±10%,1/4W	1
R115		Carbon, 33 ohm ±10%,1/4W	1
R116		Carbon, 15K ohm ±10%,1/4W	1
R117		Carbon, 100 ohm ±10%,1/4W	1
R118		Carbon, 220 ohm ±10%,1/4W	1
R119		Carbon, 2.2K ohm ±10%,1/4W	1
R120		Carbon, 33 ohm ±10%,1/4W	1
R121		Carbon, 56 ohms ±10%,1/4W	1
R122		Carbon, 10 ohms ±10%,1/4W	1
R123		Carbon, 270 ohm ±10%,1/4W	1
R124		Carbon, 5.6 ohm ±10%,1/4W	1
R125		Carbon, 270K ohm ±10%,1/4W	1
R128		Carbon, 1.8K ohm ±10%,1/4W	1
R130		Carbon, 2.2K ohm ±10%,1/4W	1
R132		Carbon, 3.9K ohm ±10%,1/4W	1
R133		Carbon, 100K ohm ±10%,1/4W	1
R134		Carbon, 27K ohm ±10%,1/4W	1
R135		Carbon, 27K ohm ±10%,1/4W	1
R136		Carbon 33K ohm ±10%,1/4W	1
R137		Carbon, 100 ohm ±10%,1/4W	1
R301		Carbon, 15K ohm ±10%,1/4W	1
R302		Carbon, 2.2K ohm ±10%,1/4W	1
R303		Carbon, 330 ohm ±10%,1/4W	1
R304		Carbon, 33 ohms ±10%,1/4W	1
R305		Carbon, 220 ohm ±10%,1/4W	1
R306		Carbon, 330 ohm ±10%,1/4W	1
R307		Carbon, 10K ohm ±10%,1/4W	1
R308		Carbon, 33 ohms ±10%,1/4W	1
R309		Carbon, 10K ohm ±10%,1/4W	1
R310		Carbon, 10 ohms ±10%,1/4W	1
R311		Carbon, 1K ohms ±10%,1/4W	1
R312		Carbon, 2.2K ohm ±10%,1/4W	1
R313		Carbon, 3.3K ohm ±10%,1/4W	1
R314		Carbon, 1K ohms ±10%,1/4W	1
R315		Carbon, 5.6K ohm ±10%,1/4W	1
R316		Carbon, 8.2K ohm ±10%,1/4W	1
R317		Carbon, 220 ohm ±10%,1/4W	1
R318		Carbon, 5.6K ohm ±10%,1/4W	1
R319		Carbon, 15K ohm ±10%,1/4W	1
R320		Carbon, 150 ohm ±10%,1/4W	1
R321		Carbon, 33 ohms ±10%,1/4W	1
R322		Carbon, 1M ohms ±10%,1/4W	1
R324		Carbon, 33K ohm ±10%,1/4W	1
R325		Carbon, 56K ohm ±10%,1/4W	1
R326		Carbon, 1.2K ohm ±10%,1/4W	1
R327		Carbon, 470K ohm ±10%,1/4W	1
R328		Carbon, 100 ohm ±10%,1/4W	1
R501		Carbon, 56 ohms ±10% 1/4W	1
R503		Carbon, 6.8K ohm ±10%,1/4W	1
R504		Carbon, 1K ohms ±10%,1/4W	1
R507,508		Carbon, 3.3K ohm ±10%,1/4W	2
R509		Carbon, 680 ohm ±10%,1/4W	1
R511,512		Carbon, 47K ohm ±10%,1/4W	2
R515		Carbon, 270 ohm ±10%,1/4W	1
R516		Carbon, 1.2K ohm ±10%,1/4W	1
	CAPACITORS		
C103		Ceramic, 15pF, 50V, ±10%	1
C104		Ceramic, 15pF, 50V. ±10%	1
C105		Ceramic, 24pF, 50V, ±10%	1
C106		Ceramic, 16pF, 50V, ±10%	1

Key No.	Part No.	Description	Q'ty
TUNER PCB ASS'Y			
	CAPACITORS		
C110		Ceramic, 20pF, 50V, ±10%	1
C111		Ceramic, 4pF, 50V, ±0.25pF	1
C112		Ceramic, 2pF, 50V, ±0.25pF	1
C113		Ceramic, 220pF, 50V, ±20%	1
C117		Ceramic, 12pF, 50V, ±10% NPO	1
C118		Ceramic, 12pF, 50V, ±10% NPO	1
C119		Ceramic, 15pF, 50V, ±10% NPO	1
C120		Ceramic, 18pF, 50V, ±10% N470	1
C121		Ceramic, 4pF, 50V, ±0.25pF NPO	1
C123		Ceramic, 47pF, 50V, ±10%	1
C125		Ceramic, 10pF, 50V, ±10%	1
C126		Ceramic 12pF, 50V, ±0.5pF	1
C127		Ceramic, 30pF, 50V, ±10%	1
C131		Ceramic, 12pF, 50V, ±10%	1
C139		Ceramic, 150pF, 50V, ±5% N220	1
C107		Ceramic, 0.022μF, 50V, +80 - 20%	1
C108		Ceramic, 0.047μF, 50V, +80 - 20%	1
C109		Ceramic, 0.047μF, 50V, +80 - 20%	1
C114		Ceramic, 0.022μF, 50V, +80 - 20%	1
C115		Ceramic, 0.022μF, 50V, +80 - 20%	1
C116		Ceramic, 0.022μF, 50V, +80 - 20%	1
C122		Ceramic, 0.047μF, 50V, +80 - 20%	1
C124		Ceramic, 0.022μF, 50V, +80 - 20%	1
C144		Ceramic, 0.022μF, 50V, +80 - 20%	1
C145		Ceramic, 0.01μF, 50V, +80 - 20%	1
C146		Ceramic, 56pF, 50V, ±5%	1
C128		BC, Con. 0.01μF, 25V, ±20%	1
C132		Styrol 3600pF, 50V, ±5%	1
C134		BC, Con. 0.0022μF, 25V, ±20%	1
C135		PP Con. 350pF, 100V, ±5%	1
C136		Styrol 250pF, 100V, ±5%	1
C138		BC, Con. 0.0047μF, 25V, ±20%	1
C140		BC, Con. 0.01μF, 25V, ±20%	1
C313		Electrolytic, 100μF, 10V	1
C317		Electrolytic, 10μF, 16V	1
C320		Electrolytic, 1μF, 25V	1
C324		Electrolytic, Nonpolar 2.2μF, 16V	1
C326		Electrolytic, 470μF, 16V	1
C328		Electrolytic, 22μF, 25V	1
C301		Ceramic, 220pF, 50V ±10%	1
C311		Ceramic, 470pF, 50V ±10%	1
C315		Ceramic, 220pF, 50V ±10%	1
C327		Ceramic, 100pF, 50V ±10%	1
C302		BC, Con. 0.022μF, 25V ±20%	1
C307		BC, Con. 0.022μF, 25V ±20%	1
C309		BC, Con. 0.022μF, 25V ±20%	1
C312		BC, Con. 0.022μF, 25V ±20%	1
C318		BC, Con. 0.018μF, 25V ±20%	1
C319		BC, Con. 0.018μF, 25V ±20%	1
C321		BC, Con. 0.022μF, 25V ±20%	1
C322		BC, Con. 0.022μF, 25V ±20%	1
C325		BC, Con. 0.022μF, 25V ±20%	1
C303		Ceramic, 0.047μF, 50V, +80 - 20%	1
C305		Ceramic, 0.047μF, 50V, +80 - 20%	1
C308		Ceramic, 0.022μF, 50V, +80 - 20%	1
C310		Ceramic, 0.022μF, 50V, +80 - 20%	1
C314,331		Ceramic, 0.022μF, 50V, +80 - 20%	2

CONNECTION

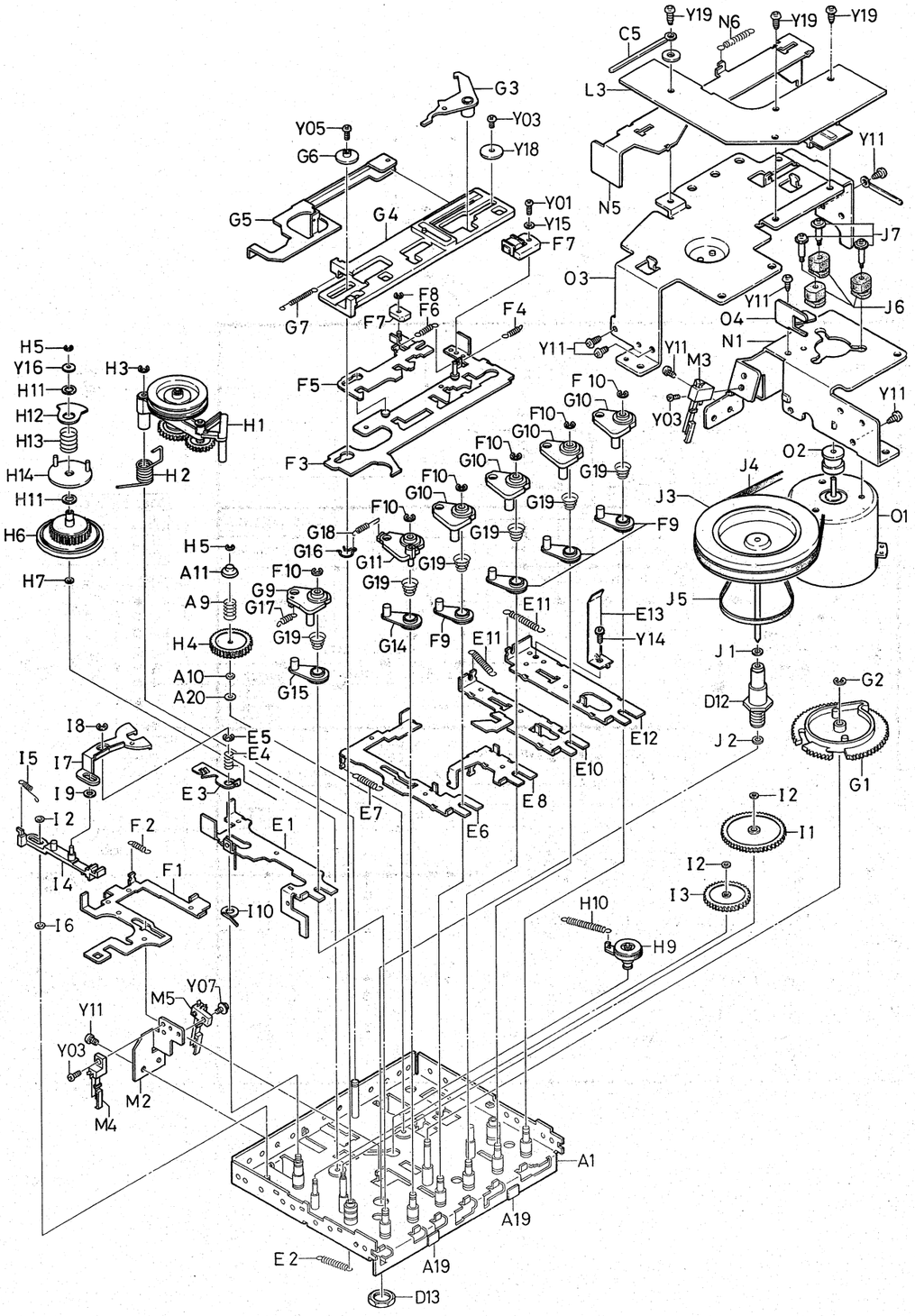

RIGHT CHANNEL CONDENSER MIC.
LEFT CHANNEL CONDENSER MIC.
VOLUME P.C.B.
METER P.C.B.
LED P.C.B.
ROD ANTENNE
YELLOW
GRAY
BROWN
METER
YELLOW
PURPLE
9P
6P
LED
FINE TUNING
GRAY
BROWN
TUNER P.C.B.
FINE
AMP P.C.B.
3P
INPUT OUTPUT P.C.B.
4P
2P
POWER SOURCE P.C.B.
RIGHT CHANNEL SPEAKER
TWEETER
RED
BLACK
2P
4P
RED
BLACK
BLUE
RED
LEFT CHANNEL SPEAKER
TWEETER
YELLOW
ORANGE
WOOFER
MECHANISM P.C.B.
7P
BROWN
BLACK
MECHANISM LED P.C.B.
WOOFER
YELLOW
ORANGE

PARTS LIST

Key No.	Part No.	Description	Q'ty
TUNER PCB ASS'Y			
	CAPACITORS		
C329		Ceramic, 0.022μF, 50V +80 - 20%	1
C330		BC, Con. 0.047μF, 25V, ±20%	1
C501		BC, Con. 0.047μF, 25V ±20%	1
C502		PP, Con. 0.001μF, 100V ±5%	1
C503		Ceramic, 0.022μF, 50V, +80 - 20%	1
C504		Electrolytic, 0.47μF, 10V	1
C507		Electrolytic, 1μF, 25V	1
C508,509		BC, Con. 0.0082μF, 25V, ±20%	2
C510,511		BC, Con. 0.1μF, 25V	2
C512		Electrolytic, 470μF, 10V	1
C513		Ceramic, 0.022μF, 50V, +80 - 20%	1
C506		Electrolytic, 1μF, 25V	1
C505		Electrolytic, 1μF, 25V	1
C514		Ceramic, 22pF, 50V, ±10%	1
C152		Ceramic, 10pF, 50V, ±10%	1
C151		Ceramic, 3pF, 50V, ±0.25pF N750	1
C150		Ceramic, 6pF, 50V, ±0.5pF N3300	1
C149		Ceramic, 3pF, 50V, ±0.25pF	1
C148		Ceramic, 100pF, 50V, ±10%	1
C143		Ceramic, 0.022μF, 50V, +80–20%	1
MECHANISM			
A1	141-0-311T-37200	Chassis, Ass'y	1
A2	141-2-530T-00800	Guide, Cassette, Front	2
A3	141-2-853T-71000	Spring Plate	1
A4	141-2-731T-89300	Slide, Brake	1
A5	141-2-712T-03401	Brake Shoe	2
A6	141-2-852T-68100	Spring Wire	1
A7	141-0-531T-13300	Reel Plate Ass'y, Left	1
A8	141-0-531T-13301	Reel Plate Ass'y, Right	1
A9	141-2-855T-68100	Spring Coil	1
A10	141-2-457T-10200	Special Washer	3
A11	141-2-352T-49900	Spacer, Left Reel	1
A12	141-2-453T-30102	Washer, 2.1 x 4 x 0.5 Nylon	1
A13	141-2-345T-00400	Steel Ball	1
A14	141-0-545T-07200	Lever, Pinch Roller Ass'y	1
A15	141-2-457T-23000	Special Washer 2mm	1
A16	141-2-855T-74700	Spring Coil	1
A17	141-2-853T-71100	Spring Plate	1
A18	141-2-853T-72900	Spring Plate	1
A19	141-2-447T-93900	Cushion	2
A20	141-2-457T-06200	Special Washer	2
B1	141-0-731T-89100	Slide Ass'y, Head	1
B2	141-2-457T-23000	Special Washer, 2mm	2
B3	141-2-855T-74900	Spring Coil	1
B4	141-2-345T-00400	Steel Ball	4
B5	123-2-472R-00200	Lug	1
B6	141-2-851T-54500	Spring Coil, Aximuth	1
B7	141-2-457T-10300	Special Washer 3.2x5.75x0.1	1
B8	141-2-472T-05900	Lug	2
B9	141-2-490T-00600	Tube	1
B10	4-242T-26871	R/P Head	1
B11	4-242T-26300	E Head	1
C1	141-2-742T-66300	Lever	1
C2	141-2-462T-68700	Boss	1
C3	141-2-742T-66500	Lever	1
D1	141-2-742T-62600	Lever	1
D2	141-2-851T-56100	Spring, Coil	1
D3	141-2-457T-33400	Special Washer 5.1x11.5x0.3	1
D4	141-2-742T-62700	Lever	1
D5	141-2-742T-62800	Lever	1
D6	141-2-462T-67400	Boss	3
D7	141-2-742T-62900	Lever, Pause	1
D8	141-0-731T-89200	Slide Ass'y	1
D9	141-2-462T-67800	Boss	2
D10	141-2-855T-05000	Spring Coil	1
D11	4-238T-31200	Switch, Play	1
D12	141-0-573T-13600	Shaft Mtg, Ass'y	1
D13	141-2-411T-02600	Plate Nut	1

Key No.	Part No.	Description	Q'ty
MECHANISM			
E1	141-0-731T-87200	Slide Ass'y, Pause	1
E2	141-2-855T-75000	Spring Coil	1
E3	141-2-614T-06000	Lever, Lock	1
E4	141-2-852T-68000	Spring Wire	1
E5	141-2-457T-23100	Special Washer	1
E6	141-2-731T-87000	Slide, F, FWD	1
E7	141-2-855T-75100	Spring Coil	1
E8	141-2-731T-86900	Slide, Play	1
E9	141-2-855T-74800	Spring Coil	1
E10	141-2-731T-86800	Slide, REW	1
E11	141-2-855T-75300	Spring Coil	2
E12	141-2-731T-86700	Slide, REC	1
E13	141-2-853T-72300	Spring Plate	1
F1	141-2-731T-87100	Slide	1
F2	141-2-855T-75400	Spring Coil	1
F3	141-0-731T-87500	Slide Ass'y	1
F4	141-2-855T-75500	Spring Coil	1
F5	141-0-731T-86600	Slide Ass'y	1
F6	141-2-855T-78600	Spring Coil	1
F7	4-264T-10300	Magnetic Coil, AMSS	1
F8	141-2-457T-23800	Special Washer	1
F9	141-0-352T-50603	Spacer Ass'y	3
F10	141-2-457T-23000	Special Washer 2mm	6
G1	141-2-581T-19600	Gear	1
G2	141-2-457T-23000	Special Washer, 2mm	1
G3	141-0-742T-60100	Lever Ass'y	1
G4	141-2-731T-87400	Slide	1
G5	141-2-731T-87600	Slide	1
G6	141-2-457T-36300	Special Washer	1
G7	141-2-855T-75800	Spring Coil	1
G8	141-2-855T-76300	Spring Coil	1
G9	141-2-742T-59901	Lever	1
G10	141-2-742T-59900	Lever	4
G11	141-2-742T-60000	Lever	1
G14	141-0-352T-50601	Spacer Ass'y	1
G15	141-0-352T-50602	Spacer Ass'y	1
G16	141-2-852T-70200	Spring Wire	1
G17	141-2-855T-80100	Spring Coil	1
G18	141-2-855T-80200	Spring Coil	1
G19	141-2-855T-71801	Spring Coil	6
H1	141-0-742T-60400	Lever Ass'y	1
H2	141-2-855T-74600	Spring Coil	1
H3	141-2-457T-23000	Special Washer	1
H4	141-2-581T-19000	Gear	1
H5	141-2-457T-23700	Special Washer 1.2mm	2
H6	141-0-661T-32000	Pulley Ass'y	1
H7	141-2-453T-30102	Washer, 2.1 x 4 x 0.5 Nylon	1
H8	141-2-453T-30101	Washer, 2.1 x 4 x 0.25 Nylon	1
H9	141-0-551T-03620	Idler Ass'y	1
H10	141-2-855T-75600	Spring Coil	1
H11	141-2-453T-30501	Washer, 4.1 x 6.5 x 0.26 Nylon	2
H12	141-2-352T-48300	Spacer	1
H13	141-2-855T-76400	Spring Coil	1
H14	141-2-671T-06400	Cum	1
I1	141-2-581T-19500	Gear	1
I2	141-2-457T-04100	Special Washer	3
I3	141-2-581T-19100	Gear	1
I4	141-2-731T-86400	Slide	1
I5	141-2-855T-75700	Spring Coil	1
I6	141-2-453T-30500	Washer, 4.1 x 6.5 x 0.13 Nylon	1
I7	141-2-731T-86500	Slide	1
I8	141-2-457T-23000	Special Washer	1
I9	141-2-453T-30301	Washer 3.1 x 5.4 x 0.25 Nylon	1
I10	141-2-853T-70900	Spring Plate	1
J1	141-2-453T-30202	Washer, 2.6 x 4.7 x 0.5 Nylon	1
J2	141-2-457T-04300	Special Washer	1
J3	141-0-521T-12121	Flywheel Ass'y	1
J4	141-2-561T-05500	Flat Blet	1
J5	141-2-564T-23971	Square Belt	1
J6	141-2-445T-11801	Rubber Cushion, Motor	3
J7	141-2-421T-27500	Special Screw, Motor	3
K1	141-2-737T-08200	Bracket, Slide	1
K2	141-2-731T-92400	Slide, REC	1
K3	141-2-731T-87301	Slide, REW, Play	3
K4	141-2-731T-87300	Slide	2

Key No.	Part No.	Description	Q'ty
MECHANISM			
K5	141-2-855T-76100	Spring Coil	6
K6	141-2-731T-87700	Slide	1
K7	141-2-855T-74500	Spring Coil	1
K8	141-2-742T-60300	Lever	2
K9	141-2-462T-67200	Boss	2
K10	141-2-352T-50300	Spacer	1
K11	141-2-731T-87800	Slide	1
K12	141-2-855T-53200	Spring Coil	1
L1	141-2-731T-92500	Slide	6
L2	141-2-855T-80500	Spring Coil	6
L3	141-4-233T-93600B	P.C. Board Ass'y	1
L702	4-252T-04700	├Choke Coil	1
	4-236T-19574	├Plug, 7P	1
D601		├Diode, DS 135E	1
C738		├Electrolytic, Cap, 47μF, 16V	1
C746		└Ceramic, Cap 0.04μF, 50V, +80–20%	1
L4	4-240T-06200	Socket, 2P	1
L5	4-240T-06300	Socket, 3P	1
M1	141-2-365T-54100	Bracket, Switch REW/F, FWD	1
M2	141-2-365T-54200	Bracket, Switch	1
M3	4-238T-31100	Switch, REW/F, FWD	1
M4	4-231T-71200	Switch, Pause	1
M5	4-238T-09600	Switch, Main	1
M6	4-238T-37800	Switch, Trigger	1
M7	141-2-742T-70900	Lever	1
M9	141-2-365T-56000	Bracket, Stop Mute SW Mtg.	1
M8	141-2-462T-69800	Boss	1
M10	4-238T-43400	Switch	1
N1	141-2-378T-11300	Bracket, Motor	1
N2	141-2-811T-09100	Counter	1
N3	141-2-812T-09900	Bracket, Counter	1
N4	141-2-564T-24500	Square Belt	1
N5	141-2-731T-93100	Slide	1
N6	141-2-855T-76000	Spring, Coil	1
O1	4-527T-17171	Motor	1
O2	141-0-661T-76203	Motor Pulley Ass'y	1
O3	141-2-524T-09801	Bracket, Flywheel	1
O4	141-2-351T-54900	Bracket, Mounting	1
MECHANISM HARDWARE			
Y1		Pan Head, Screw 2 x 6mm	1
Y2		Pan Head, Screw 2.6 x 3mm	2
Y3		Pan Head, Screw 2.6 x 4mm	5
Y4		Pan Head, Screw 2.6 x 6mm	2
Y5		Pan Head, Screw 2.6 x 8mm	1
Y6		Pan Head, Screw 3 x 4mm	1
Y7		Pan Hd Screw W/Washer 2 x 4mm	1
Y8		Pan Hd Screw W/Washer 2 x 6mm	3
Y9		Pan Hd Screw W/Washer 2 x 8mm	2
Y10		Pan Head Forming Screw 2.6 x 4mm	5
Y11		Pan Head Forming Screw 3 x 4mm	8
Y12		Flat Head Screw 2.6 x 4mm	3
Y13		Pan Screw + SP. Wahser 2 x 4mm	1
Y14		Pan Screw + SP. Washer 2 x 6mm	1
Y15		Washer 2 x 4.3 x 0.4mm	1
Y16		Wahser 2 x 6 x 0.4mm	1
Y17		Washer 2.6 x 5 x 0.5mm	1
Y18		Washer 2.6 x 10 x 0.5mm	1
Y19		Pan Head Forming Screw 3 x 6mm	3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Y15
F7
N5
J7
O3
F8
F6
F7
F4
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Y11
O4
J6
Y11
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M3
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Y16
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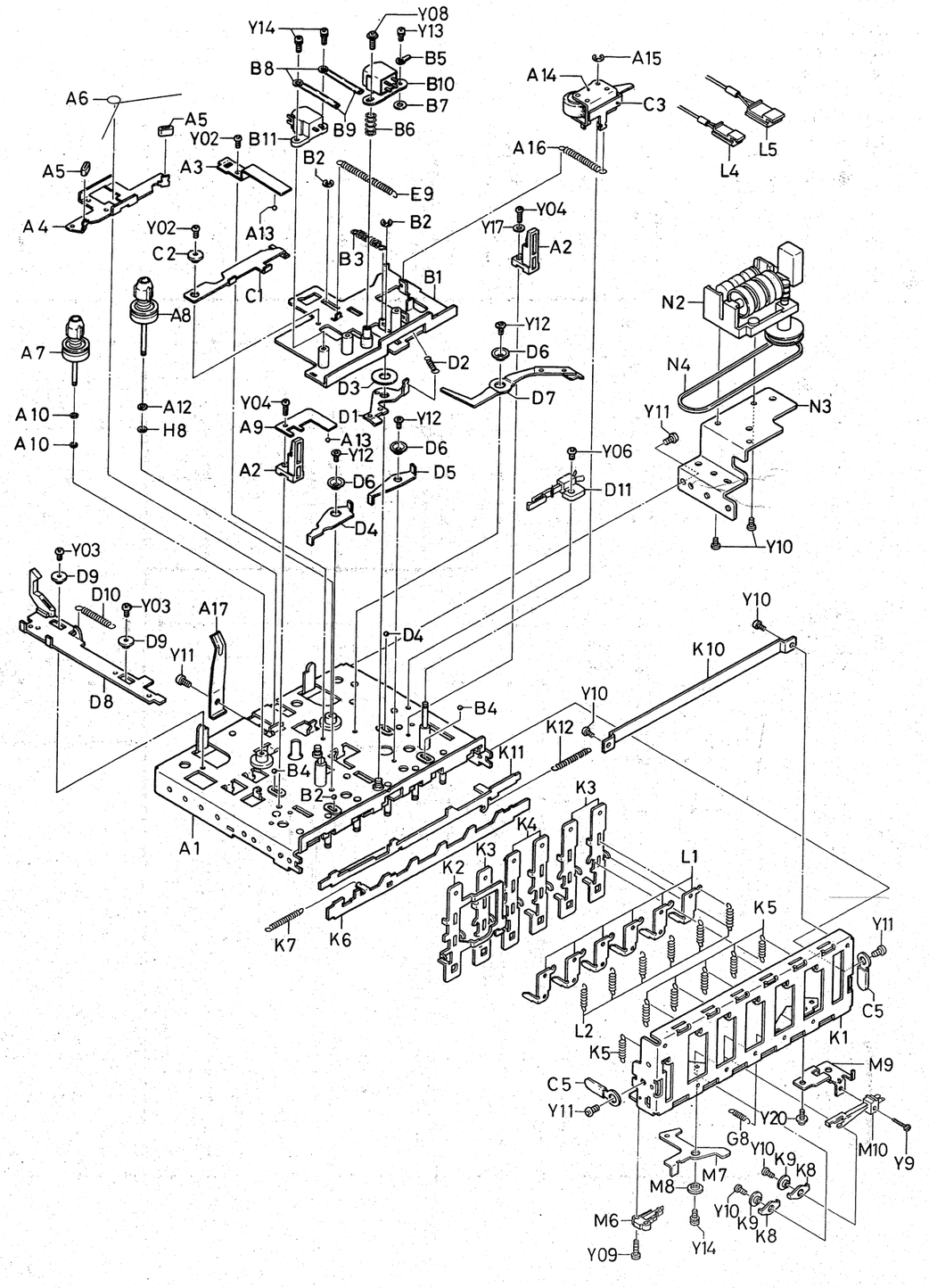
D13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Y04
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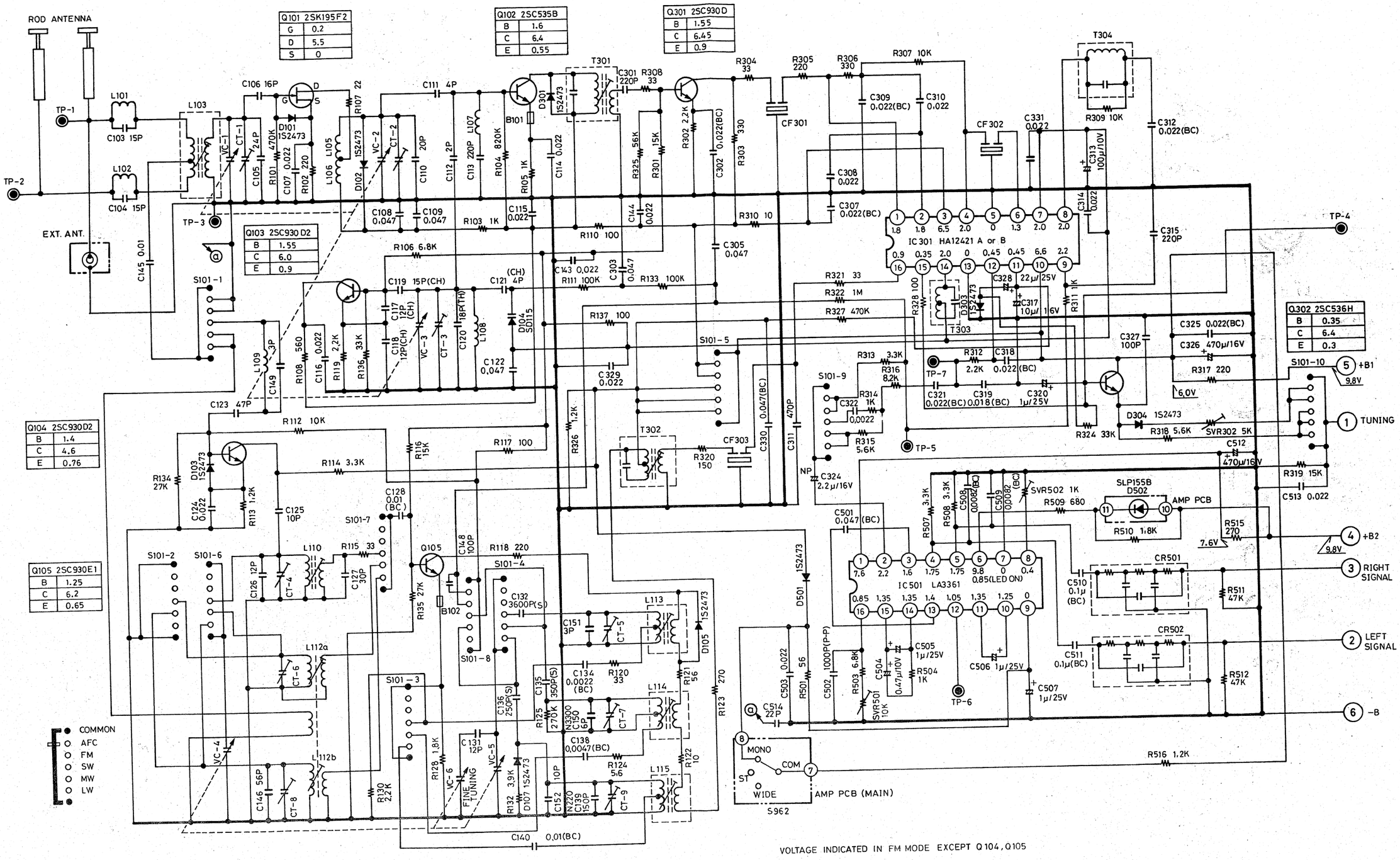
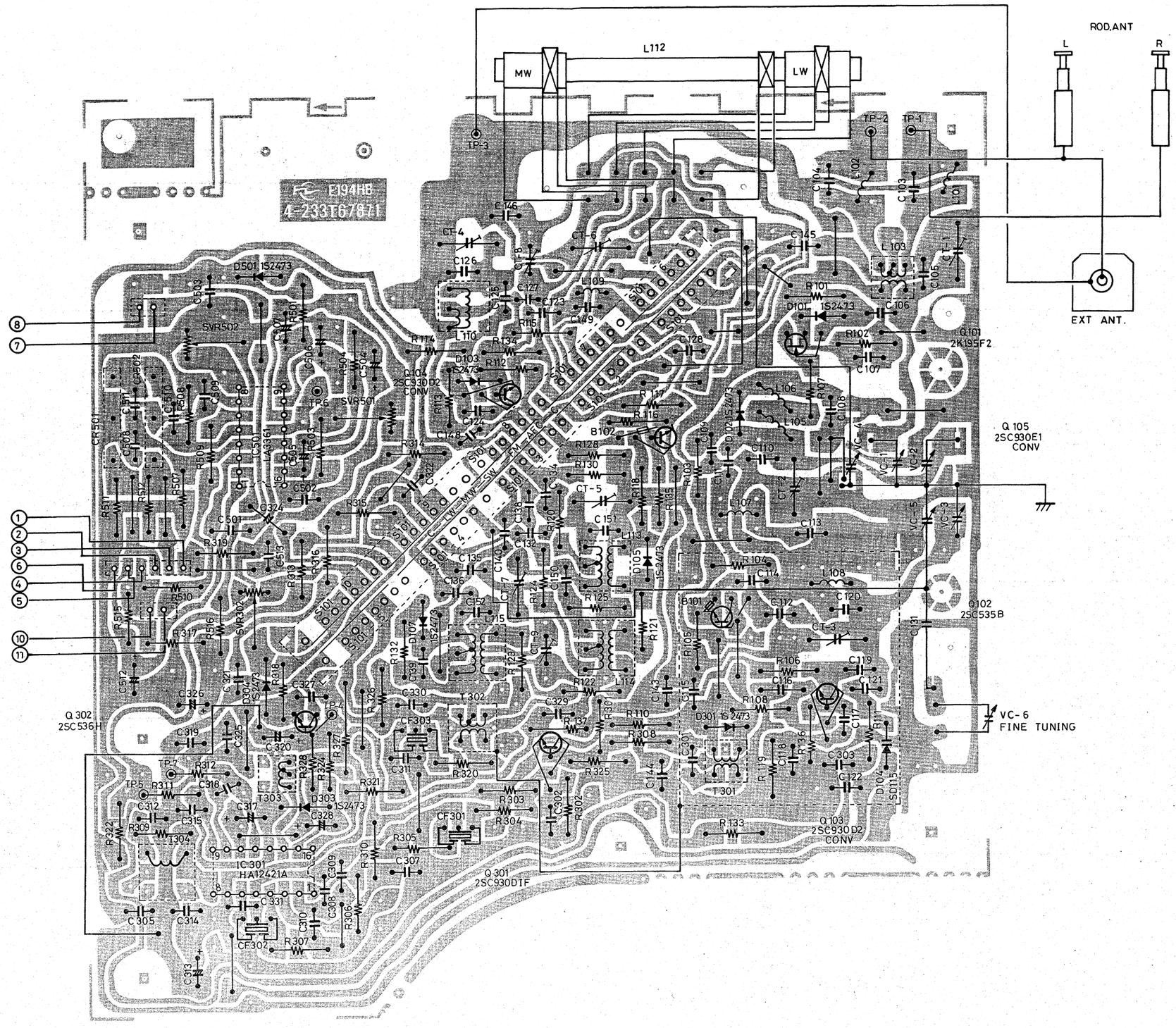
Y14

SCHEMATIC DIAGRAM (TUNER)



VOLTAGE INDICATED IN FM MODE EXCEPT Q104, Q105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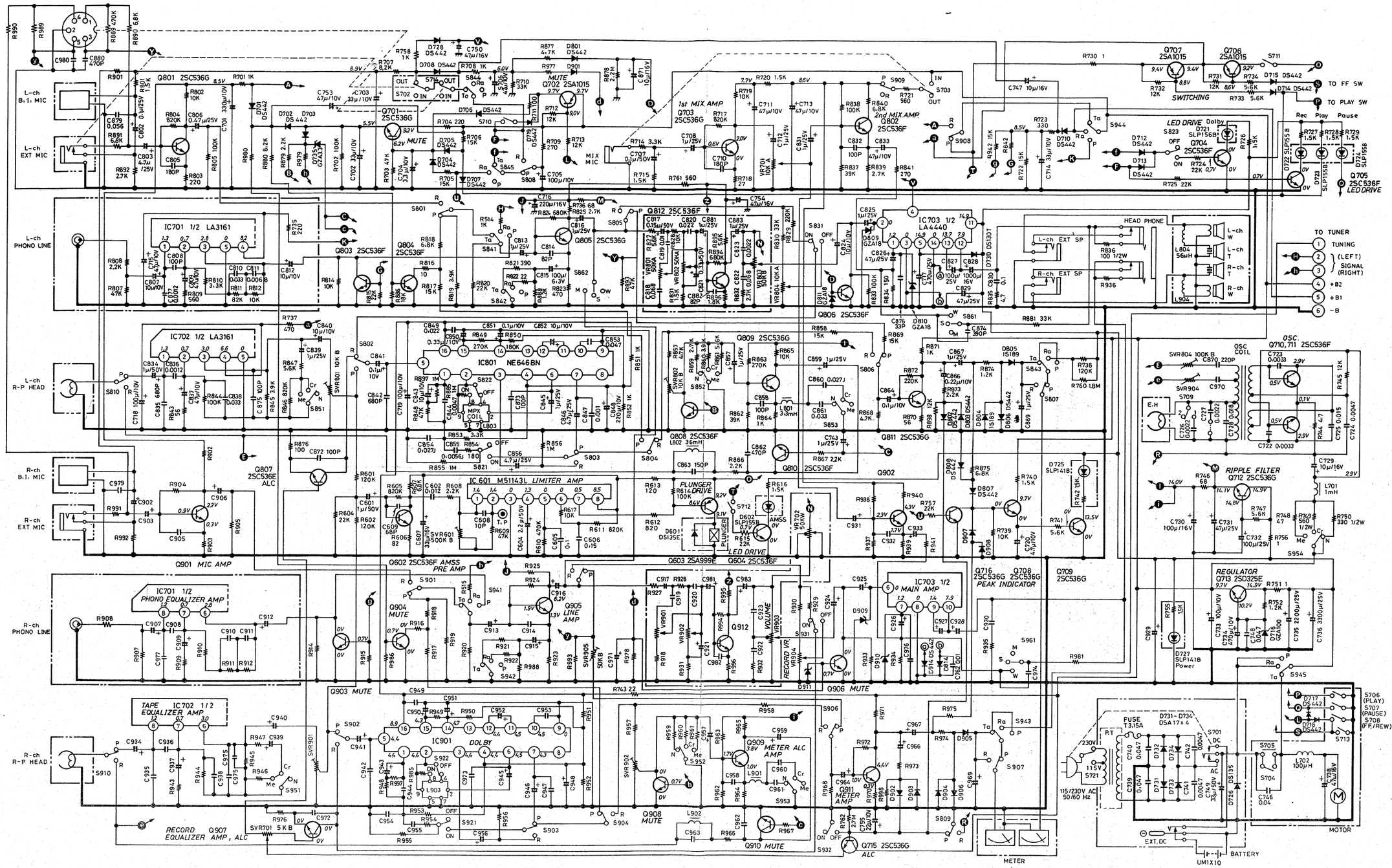
SCHEMATIC DIAGRAM (AMP)



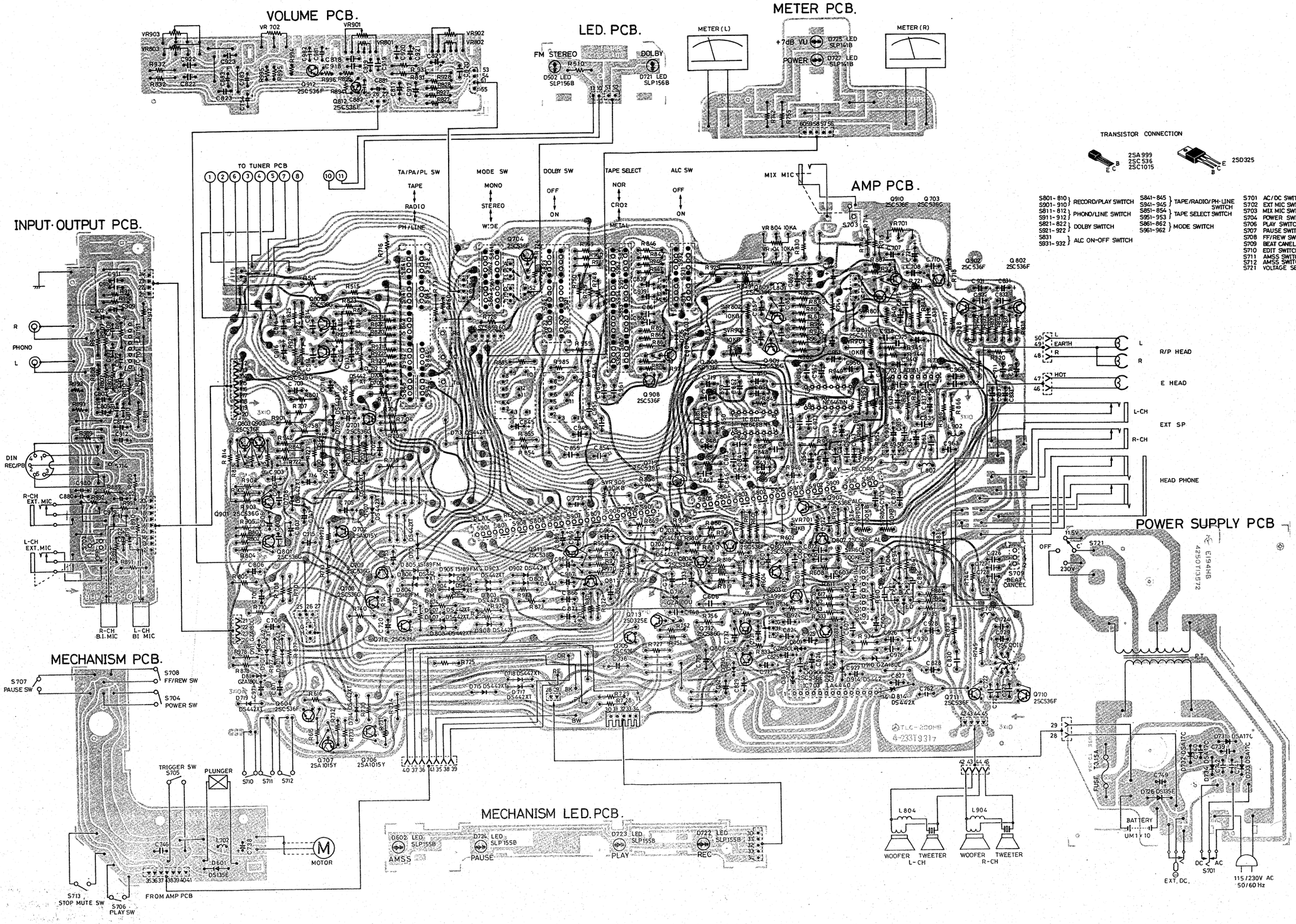
S801 ~ 810 ····· RECORD/PLAY SWITCH
S901 ~ 910 ····· RECORD/PLAY SWITCH
S821 ~ 823 ····· DOLBY SWITCH (ON / OFF)
S921 ~ 923 ····· DOLBY SWITCH (ON / OFF)
S831 ~ 832 ····· ALC ON/OFF SWITCH
S931 ~ 932 ····· ALC ON/OFF SWITCH

S841 ~ 845 ····· TAPE / RADIO / Ph SWITCH
S941 ~ 945 ····· TAPE / RADIO / Ph SWITCH
S851 ~ 853 ····· TAPE SELECT SWITCH (Normal/ CrO2 /Metal)
S951 ~ 954 ····· TAPE SELECT SWITCH (Normal/ CrO2 /Metal)
S861 ~ 862 ····· MODE SWITCH (Mono/Stereo/Wide)
S961 ~ 962 ····· MODE SWITCH (Mono/Stereo/Wide)

S701.... AC/DC SWITCH
S702.... EXT MIC SWITCH (IN/OUT)
S703.... MIX MIC SWITCH (IN/OUT)
S704.... POWER SWITCH (ON/OFF)
S705.... TRIGGER SWITCH (ON/OFF)
S706.... PLAY SWITCH (ON/OFF)
S707.... PAUSE SWITCH (ON/OFF)
S708.... FF/REW SWITCH (ON/OFF)

S709.... BEAT CANCEL SWITCH (1/2)
S710.... EDIT SWITCH (ON/OFF)
S711.... AMSS SWITCH (ON/OFF)
S712.... AMSS SWITCH (ON/OFF)
S713.... STOP MUTING SWITCH
S714.... DIN SWITCH
S721.... VOLTAGE SELECT SWITCH (115/230V)

WIRING DIAGRAM (AMP)



MODIFICATION NOTICE

CASSETTE RECORDER

SANYO

MX 720LU (EUROPE) WM-6710

Date Feb, 10, 1984 Issued by _____

The following corrections should be made in the SERVICE MANUALS and PARTS (PRICE) LIST.

		Section	Key No.	Part No.	Description	Q'ty	Remark	Reason
1	From	Cabinet & Chassis	1	141-0-111T-47903	Cabinet Assy			E
	To		"	141-0-111T-47905	"			
2	From	"	9	141-0-126T-35803	Back Lid Assy			E
	To		"	141-0-126T-35805	"			
3	From							
	To							

INTERCHANGEABLE NOT INTERCHANGEABLE	Serial No. / Chassis No. — Effective from
Q'ty of initial production before modification.	Identification of modified unit.

REASON FOR MODIFICATION

A ..... Standardization
B ..... Change of materials
C ..... Improvement of reliability
D ..... Improvement of performance
E ..... Miss print
F ..... Miss register
G .....

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OSAKA, JAPAN

WM-11504